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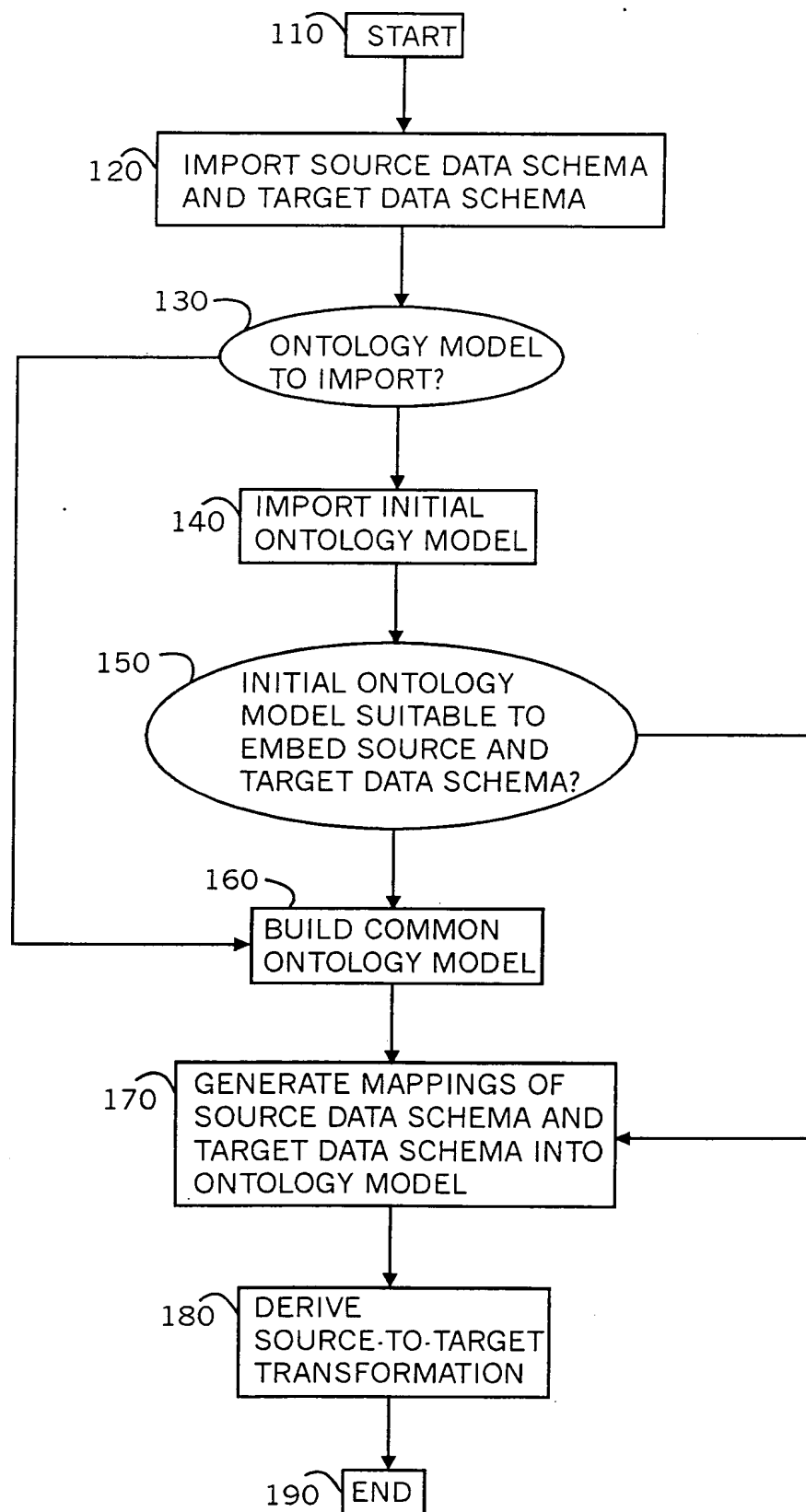


FIG. 1

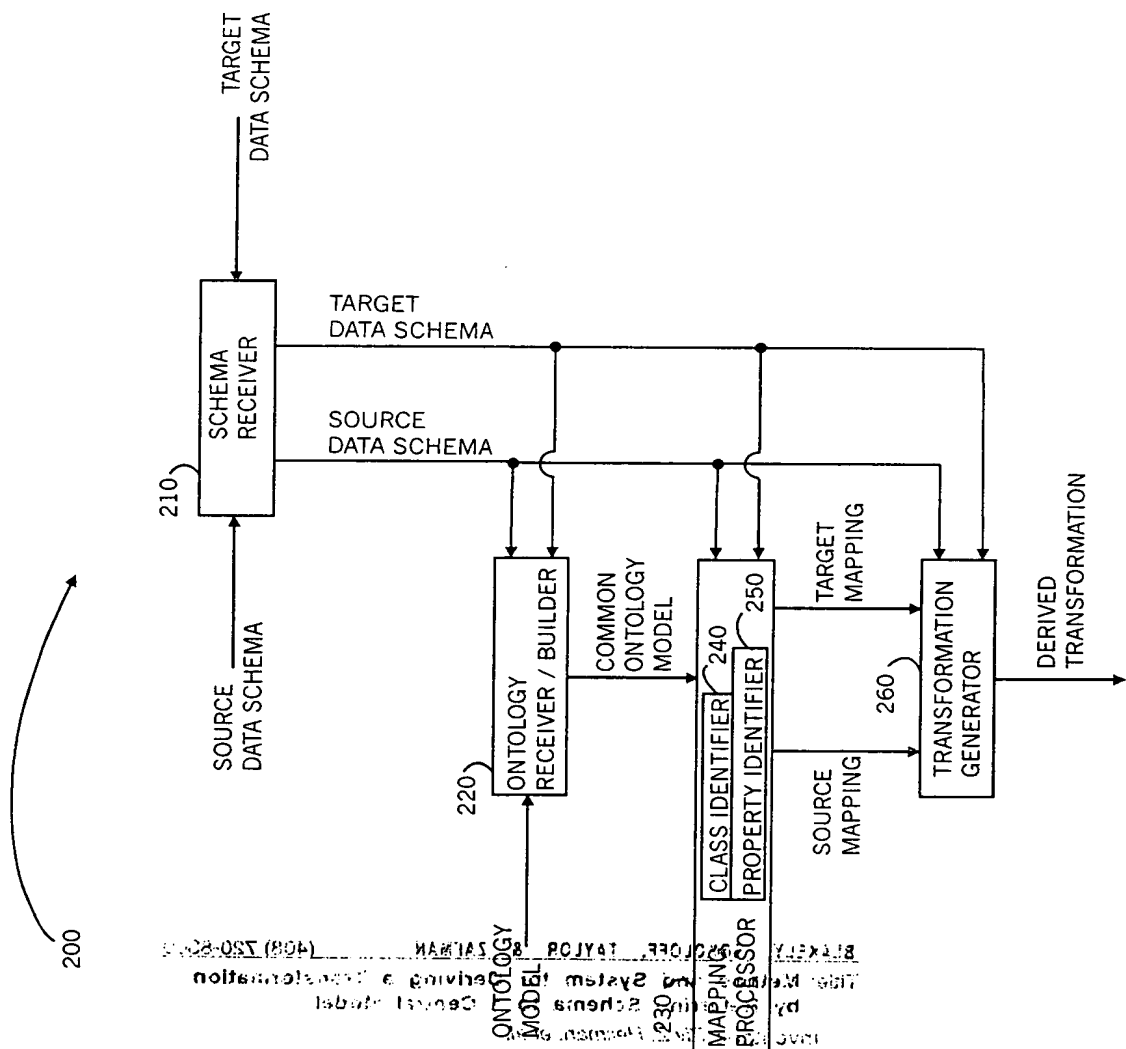


FIG. 2

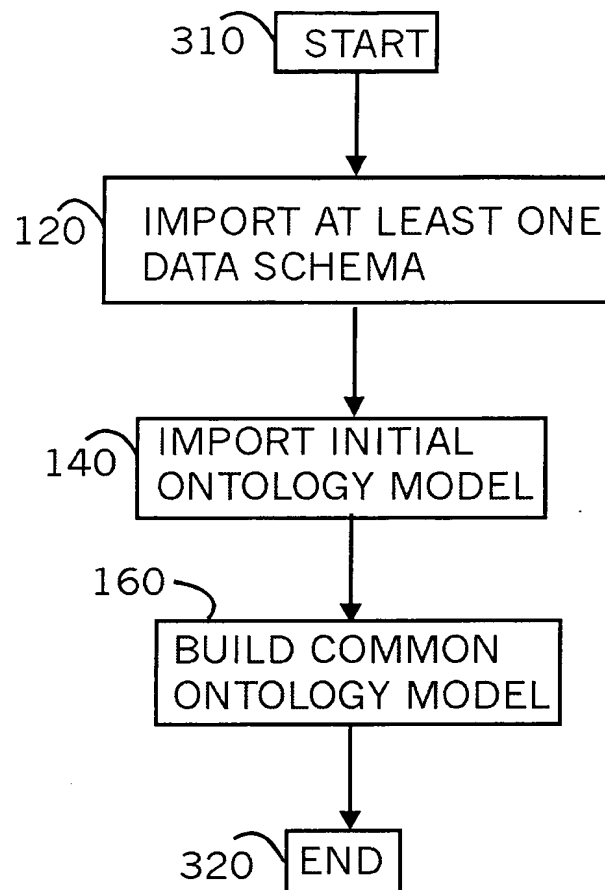


FIG. 3

KELLY, SCOTLOFF, TAYLOR & ZAFMAN  
 Method and System for Deriving a Transformation  
 by Rotating Schema to a Central Model  
 Invented by Kelly, Scottloff, Taylor & Zafman  
 Filing Date: 07/15/2008  
 App. No.: 12/160,345  
 Publication No.: 2009/0148000  
 (908) 720-8200

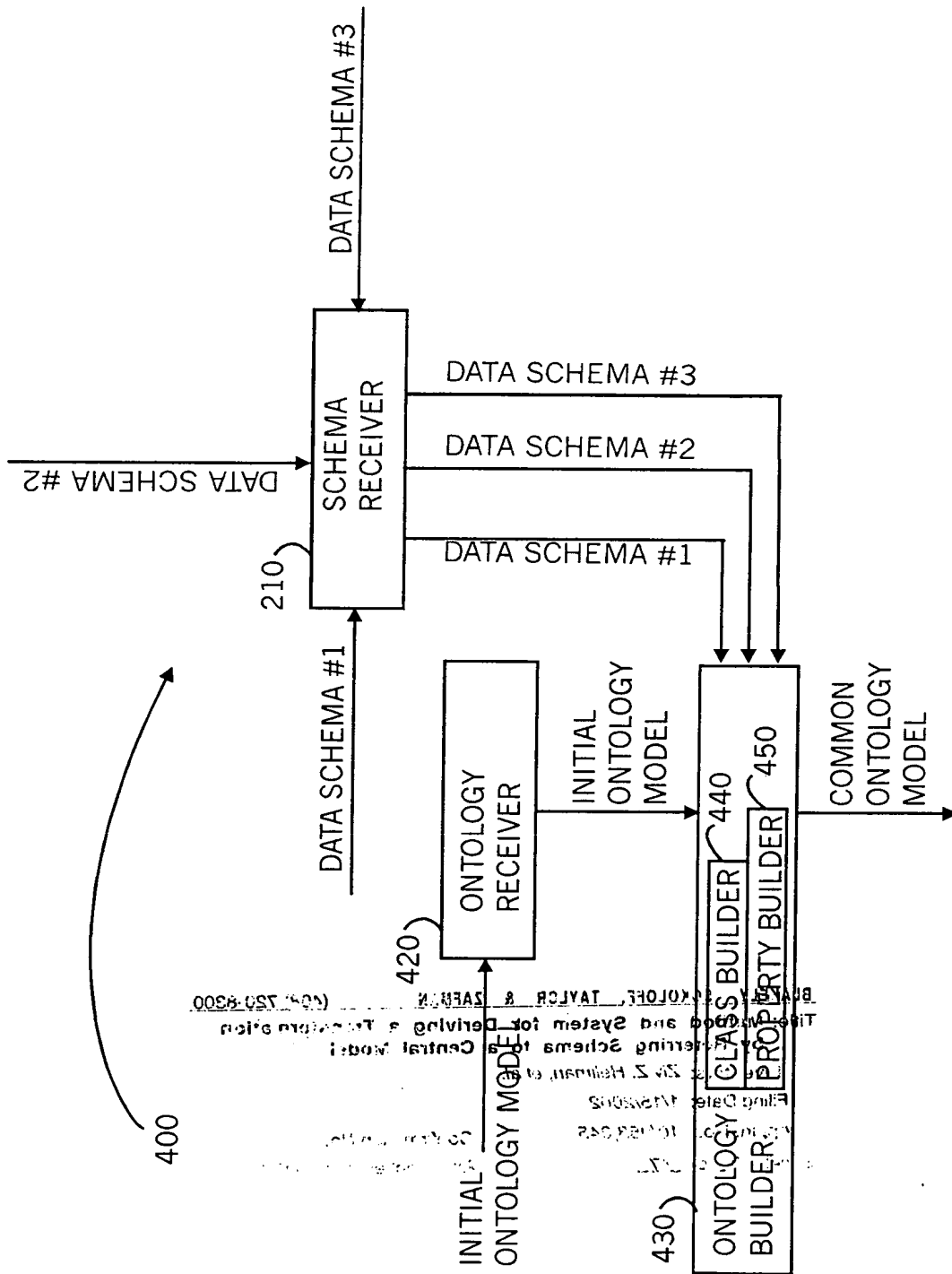


FIG. 4

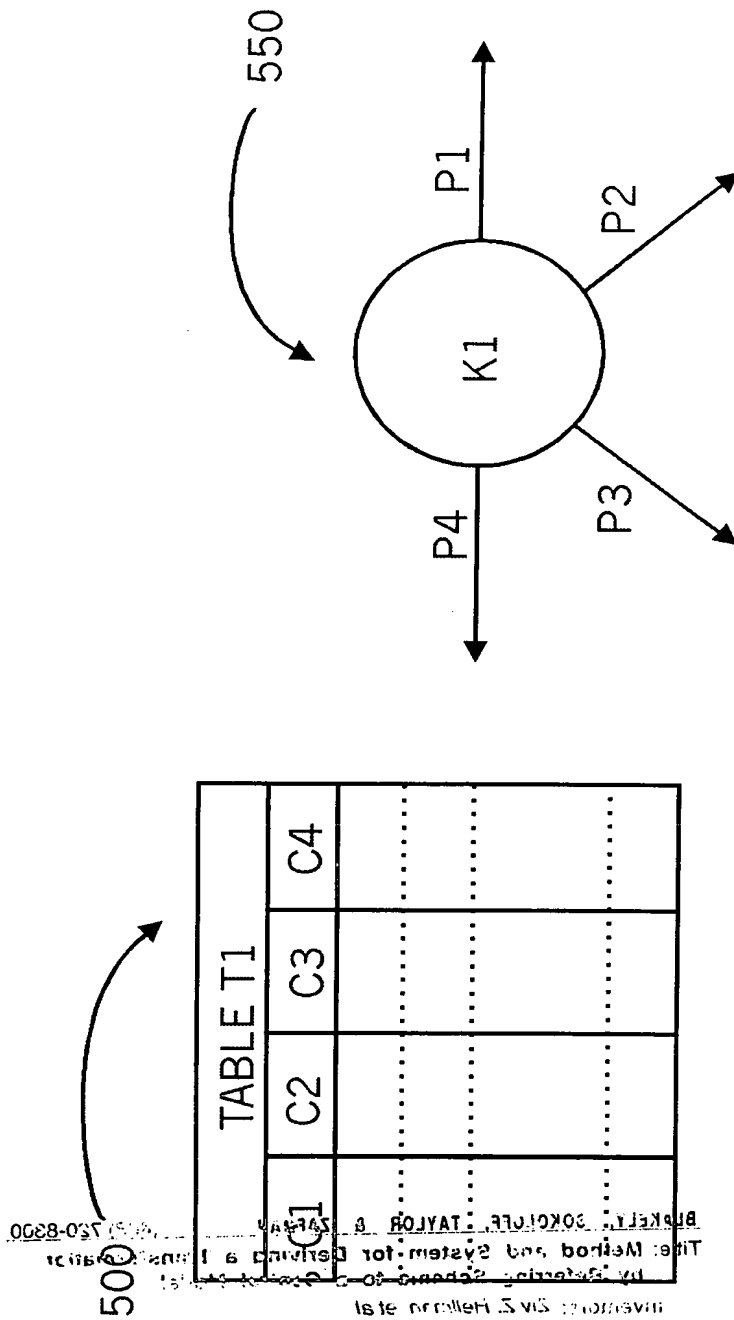


FIG. 5

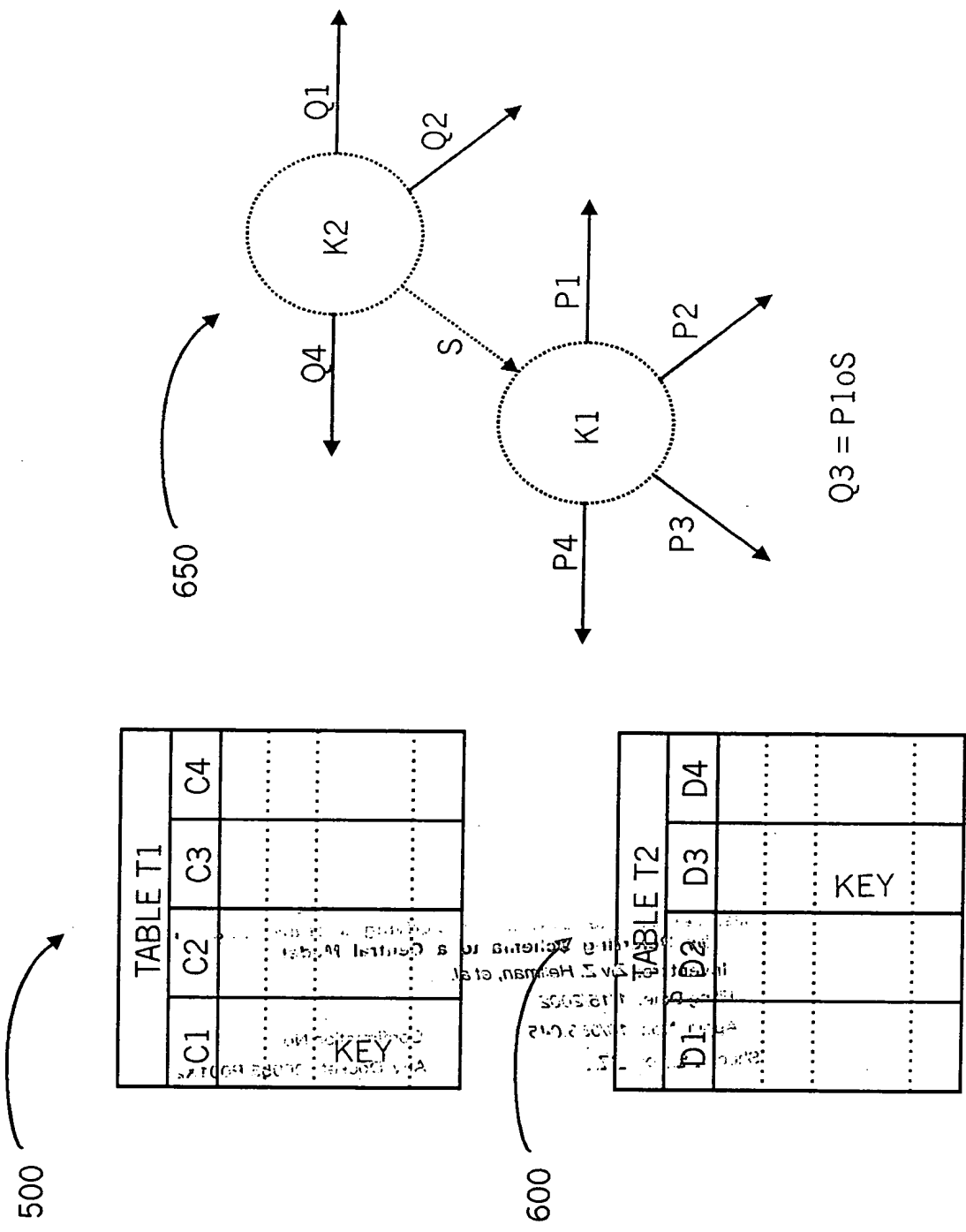


FIG. 6

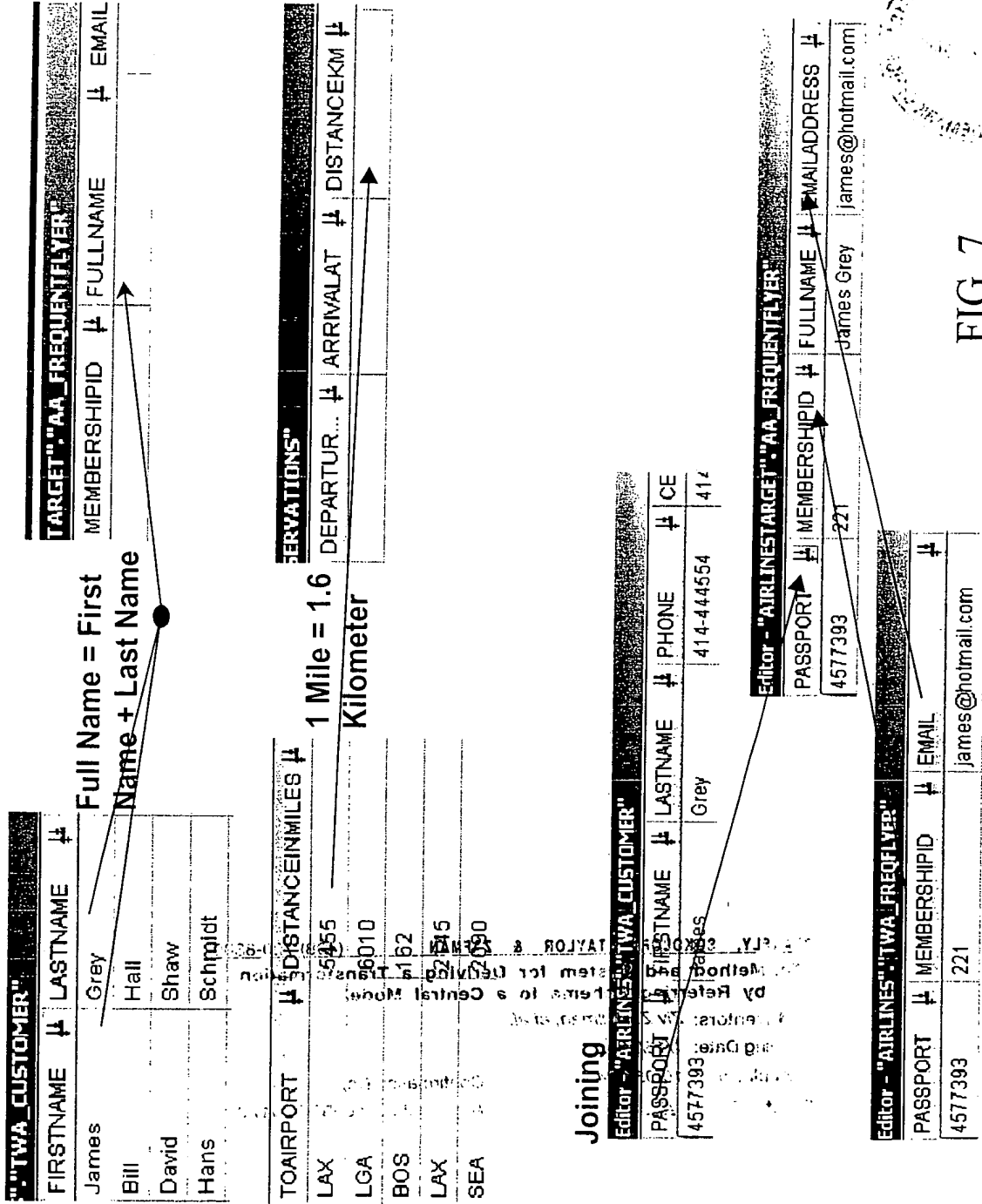


FIG. 7





FIG. 8

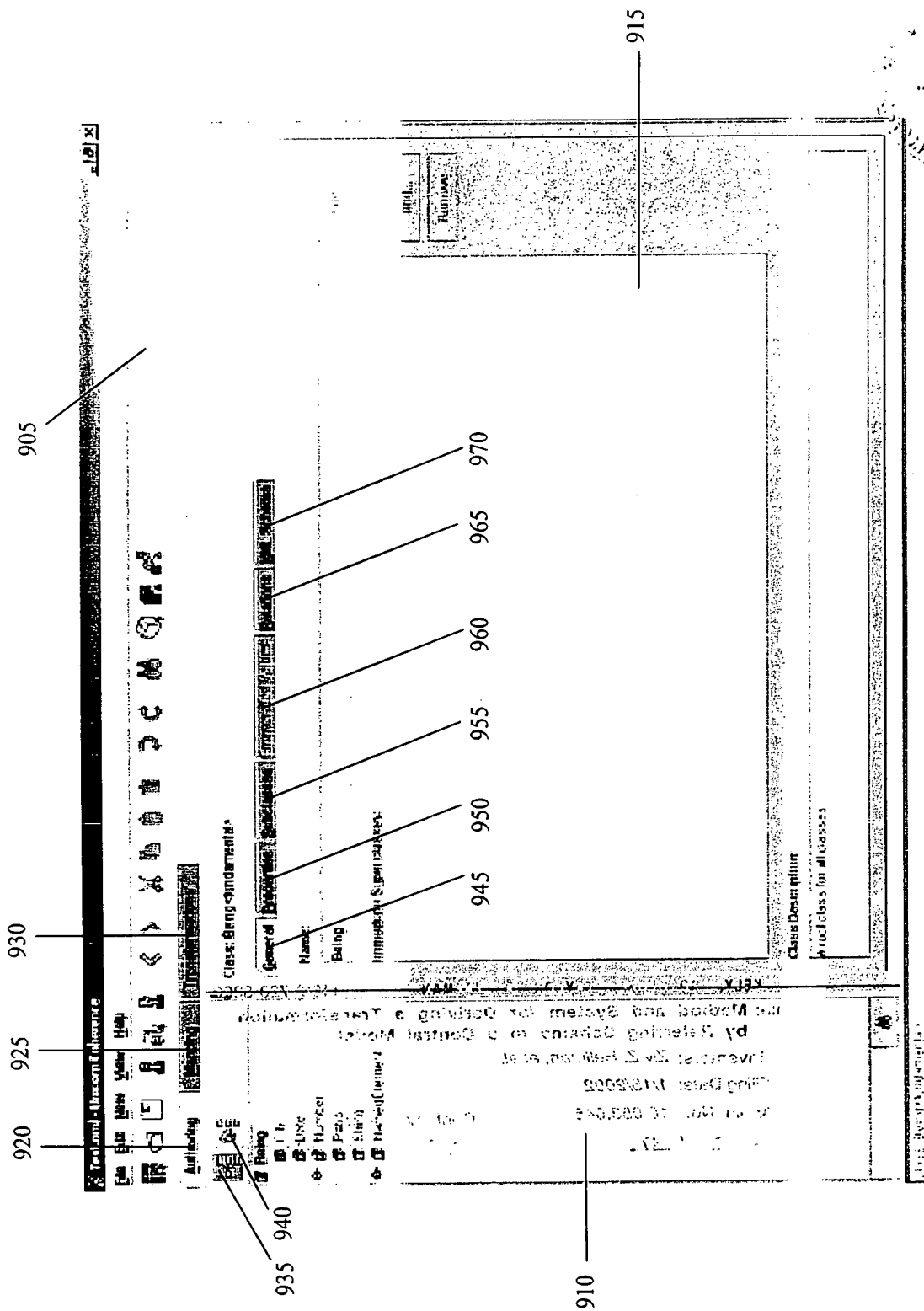


FIG. 9A



[illegible]

FIG. 9C

[illegible]



**Schema Converter (1.0)** [ ] [X]

1020 Database Name: \_\_\_\_\_

1030 Host Name: \_\_\_\_\_

1040 Port: \_\_\_\_\_

1050 Username: \_\_\_\_\_

1060 Password: \_\_\_\_\_

1070 Oracle Schema: \_\_\_\_\_

1080 Coherence Schema: \_\_\_\_\_

1090 Output File: \_\_\_\_\_

Select Location..

Convert Schema

1010

FIG. 10



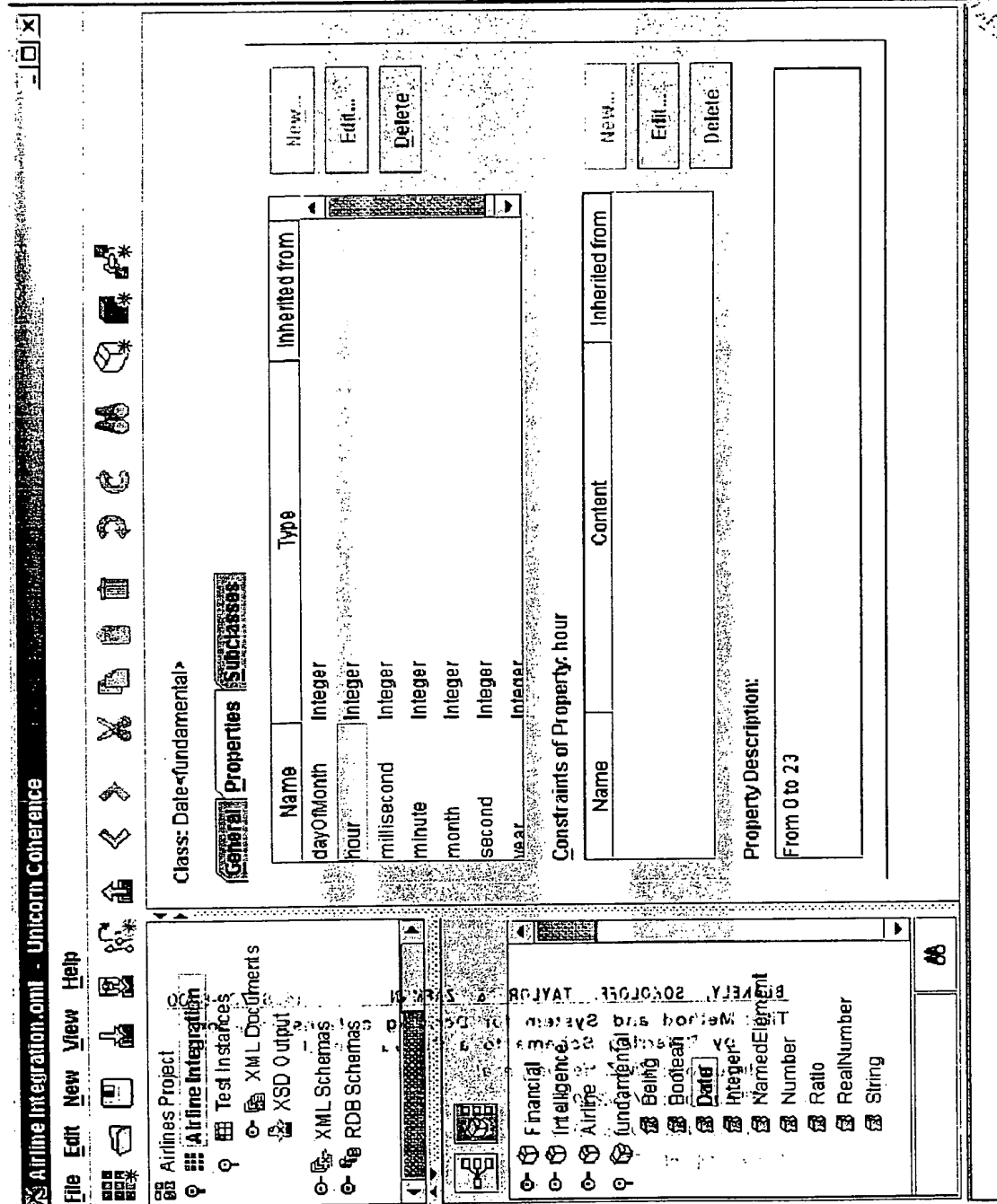


FIG. 11A



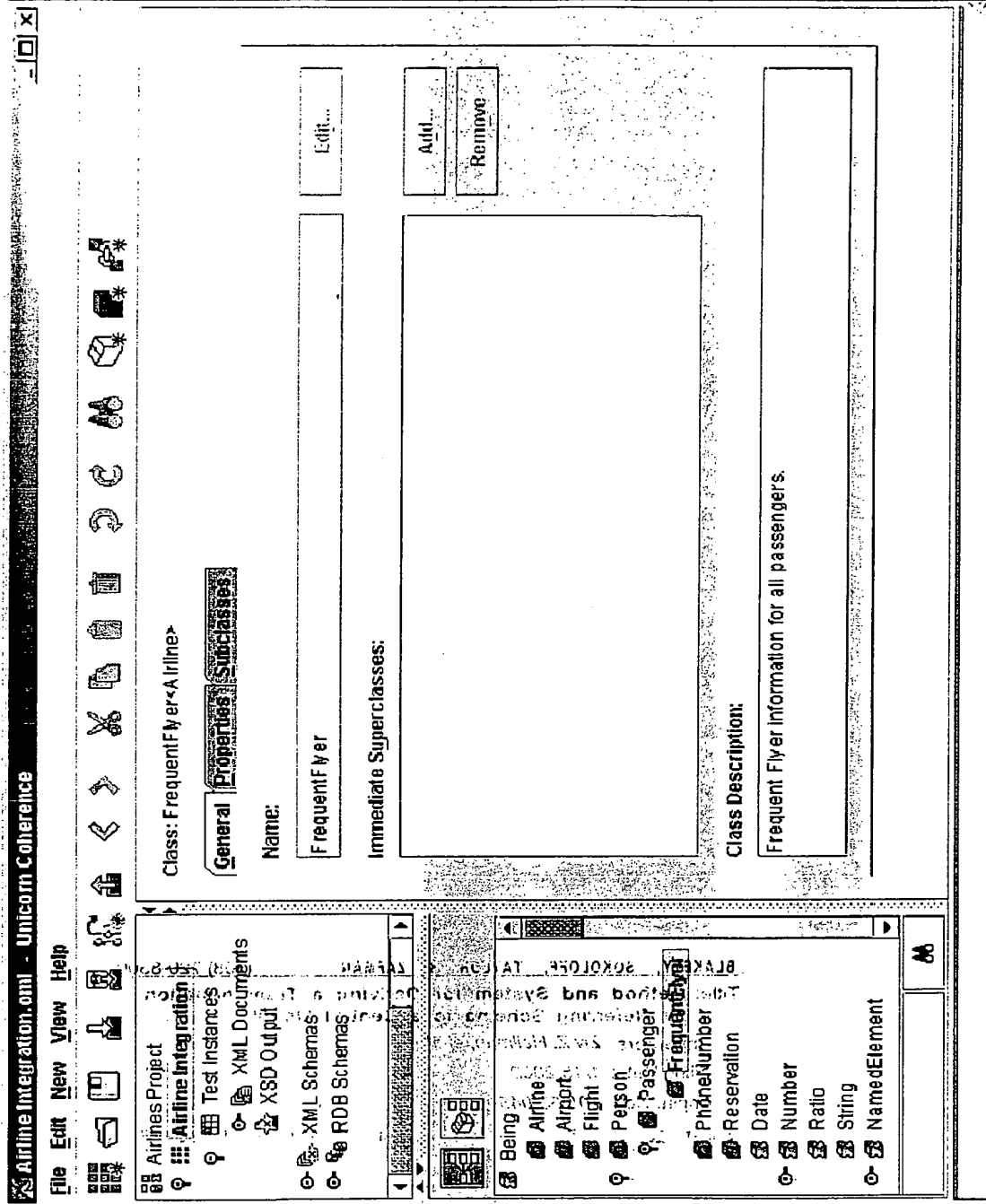


FIG. 11B

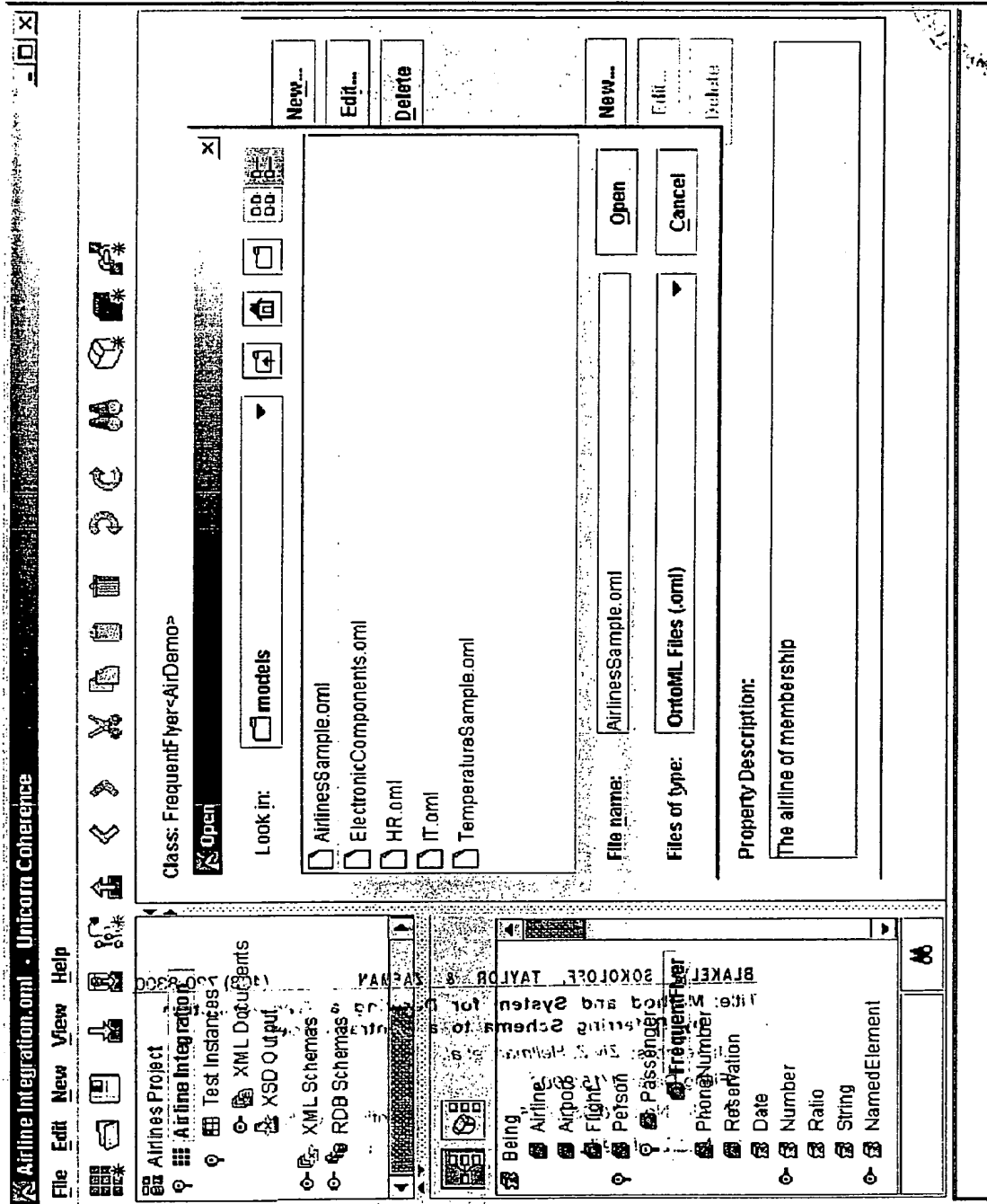


FIG. 11C

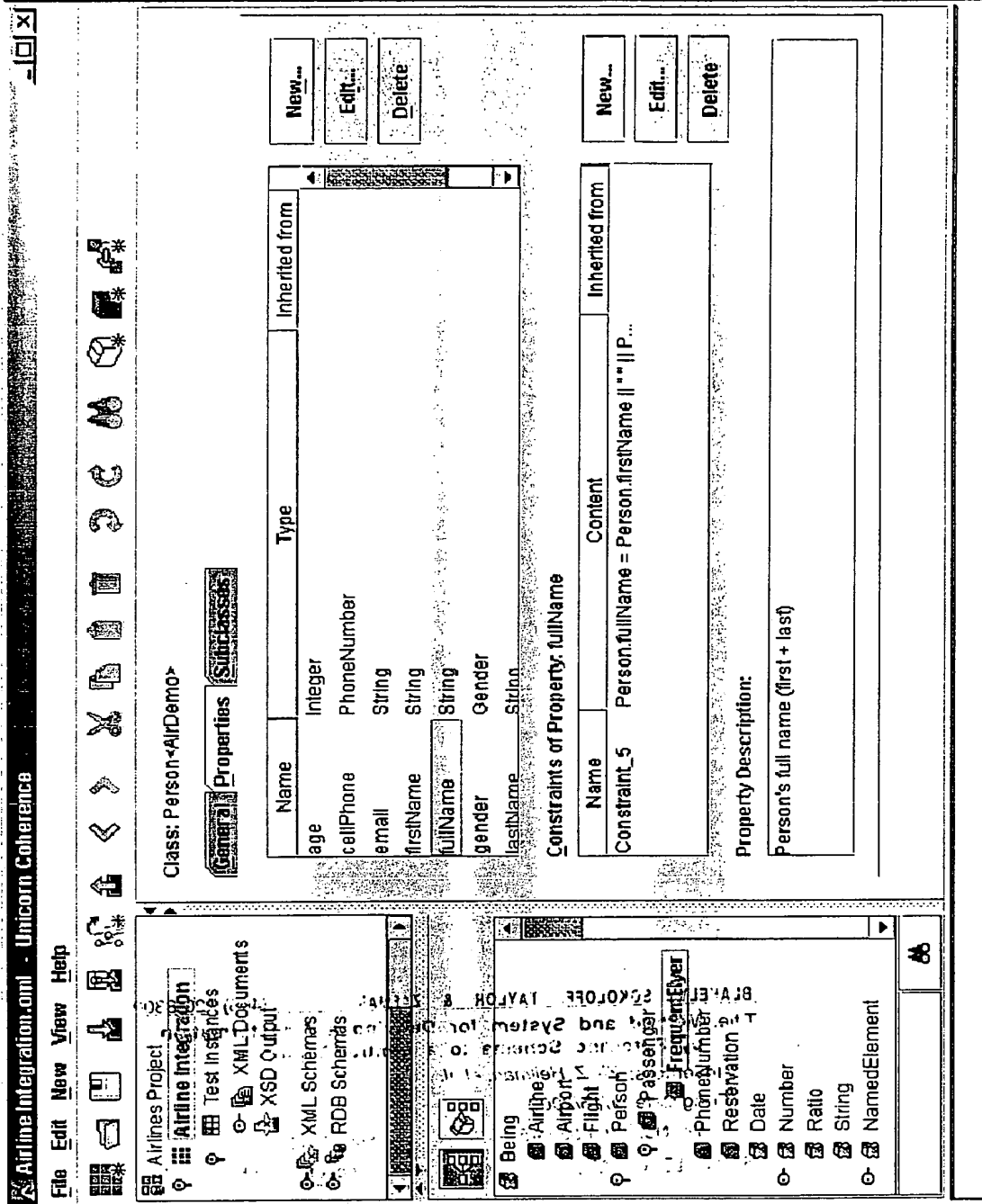


FIG. 11D



```

<?xml version="1.0" encoding="UTF-8" ?>
- <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified" attributeFormDefault="unqualified">
- <xs:element name="reservation" type="Reservation">
- <xs:complexType name="Flights">
- <xs:sequence>
- <xs:element name="flight" type="Flight" minOccurs="1" maxOccurs="unbounded" />
- </xs:sequence>
- </xs:complexType>
- <xs:complexType name="Flight">
- <xs:sequence>
- <xs:element name="airline" type="xs:string" />
- <xs:element name="arrivalAirport" type="xs:string" />
- <xs:element name="departureAirport" type="xs:string" />
- <xs:element name="distanceInKm" type="xs:float" />
- <xs:element name="startTime" type="xs:dateTime" />
- </xs:sequence>
- </xs:complexType>
- <xs:complexType name="FlightID" type="xs:string" />
- </xs:complexType>
- <xs:complexType name="Reservation">
- <xs:sequence>
- <xs:element name="flightInfo" type="FlightInfo" />
- <xs:complexType>
- <xs:sequence>
- <xs:element name="flights" type="Flights" />
- </xs:sequence>
- </xs:complexType>
- <xs:element name="passenger" type="Passenger" />
- </xs:sequence>
- <xs:attribute name="reservationID" type="xs:string" />

```

## Swiss Air Schema

```

<?xml version="1.0" encoding="UTF-8" ?>
- <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified" attributeFormDefault="unqualified">
- <xs:element name="customerOrder" type="FlightReservation" />
- <xs:complexType name="FlightInfo">
- <xs:sequence>
- <xs:element name="securityLevel" type="xs:string" />
- <xs:element name="flightOccurrence" type="Journey" minOccurs="0" maxOccurs="unbounded" />
- </xs:sequence>
- </xs:complexType>
- <xs:complexType name="Journey">
- <xs:sequence>
- <xs:element name="airline" type="Company" />
- <xs:element name="arrival" type="Airport" />
- <xs:element name="departure" type="Airport" />
- <xs:element name="distanceInMiles" type="xs:float" />
- <xs:element name="id" type="xs:string" />
- <xs:element name="take-off" type="xs:date" />
- </xs:sequence>
- </xs:complexType>
- <xs:complexType name="FlightReservation">
- <xs:sequence>
- <xs:element name="flightInfo" />
- <xs:complexType>
- <xs:sequence>
- <xs:element name="flight" type="Journey" />
- </xs:sequence>
- </xs:complexType>
- </xs:element>
- <xs:element name="commuter" type="Commuter" />

```

## British Airways Schema

FIG. 11F

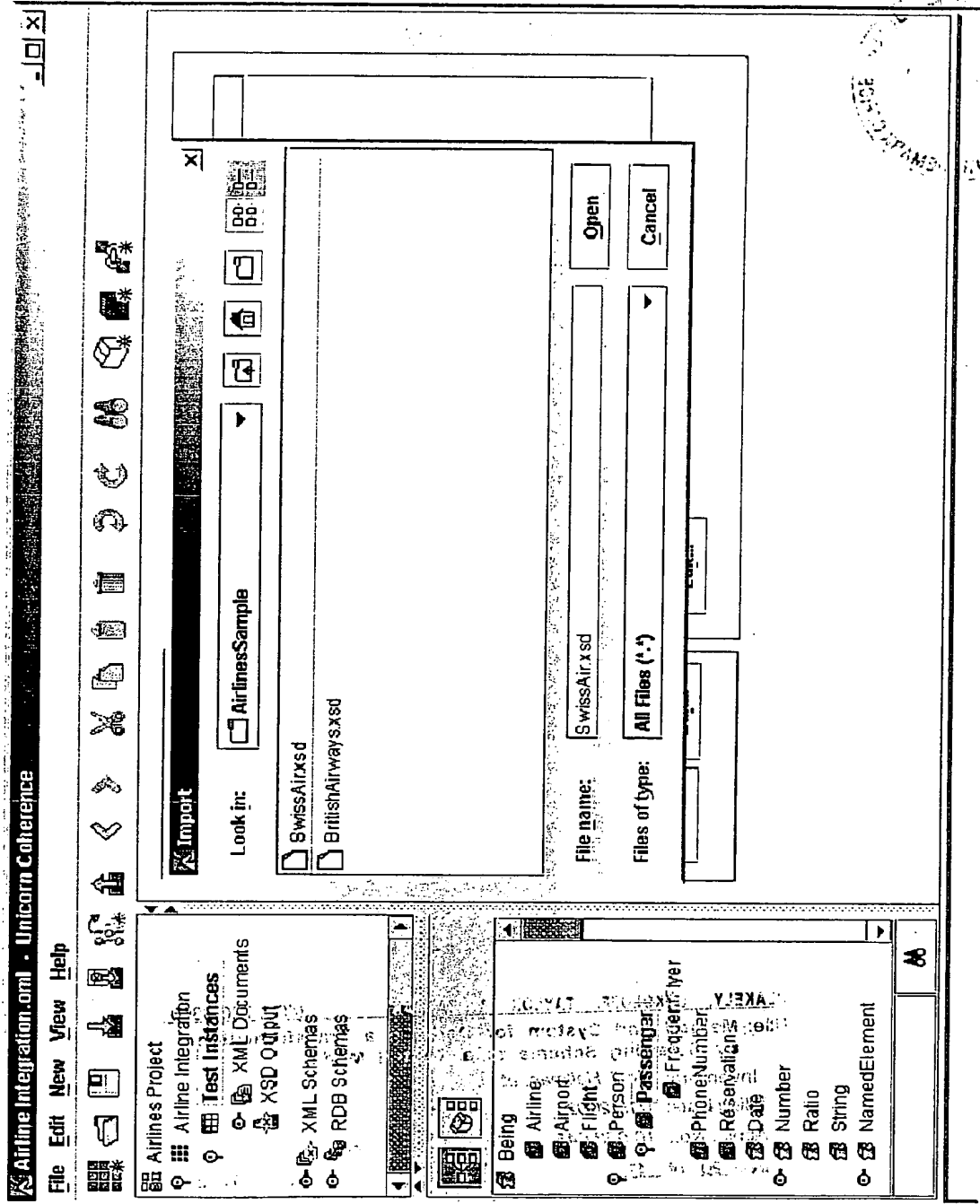


FIG. 11G

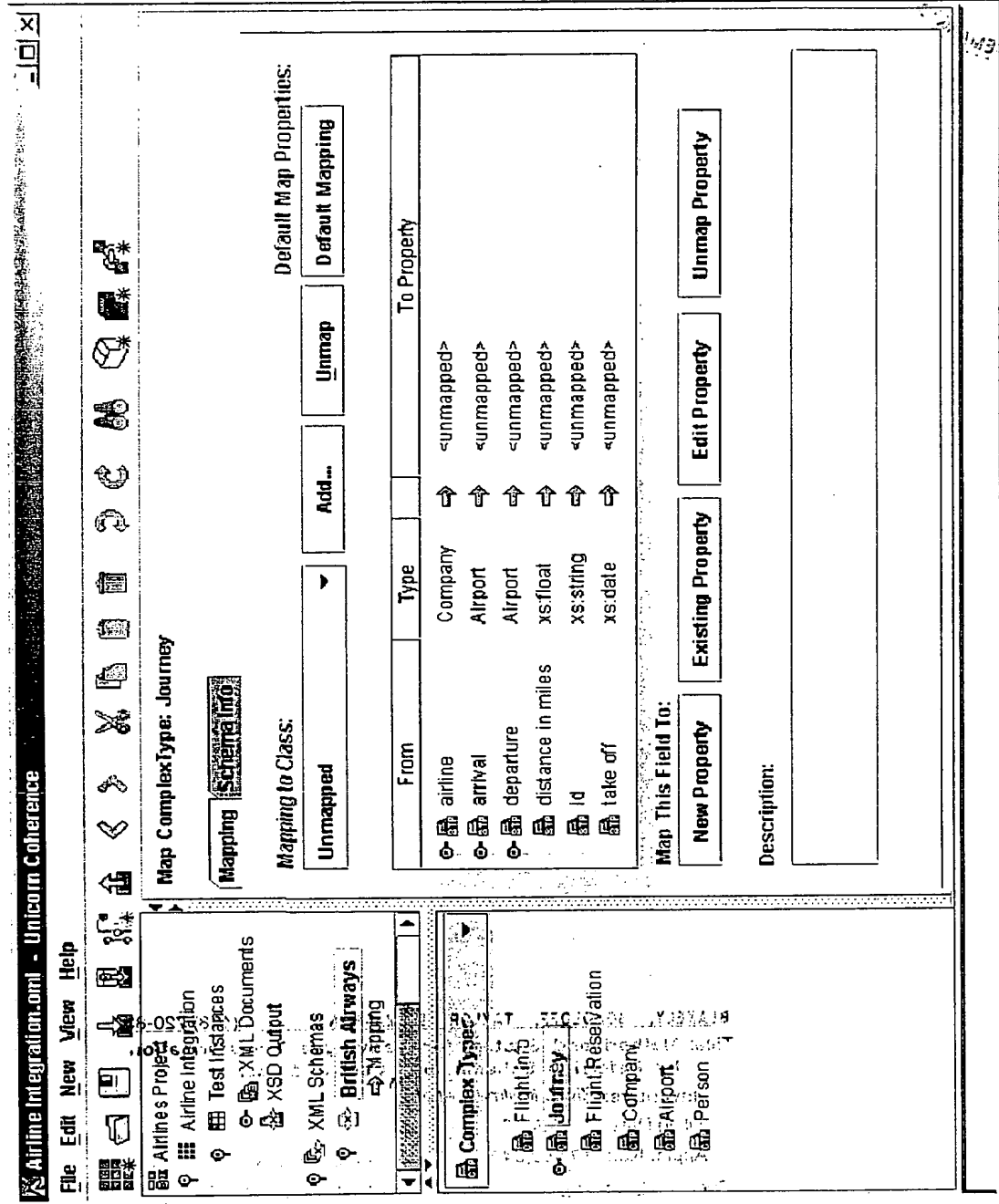


FIG. 11H

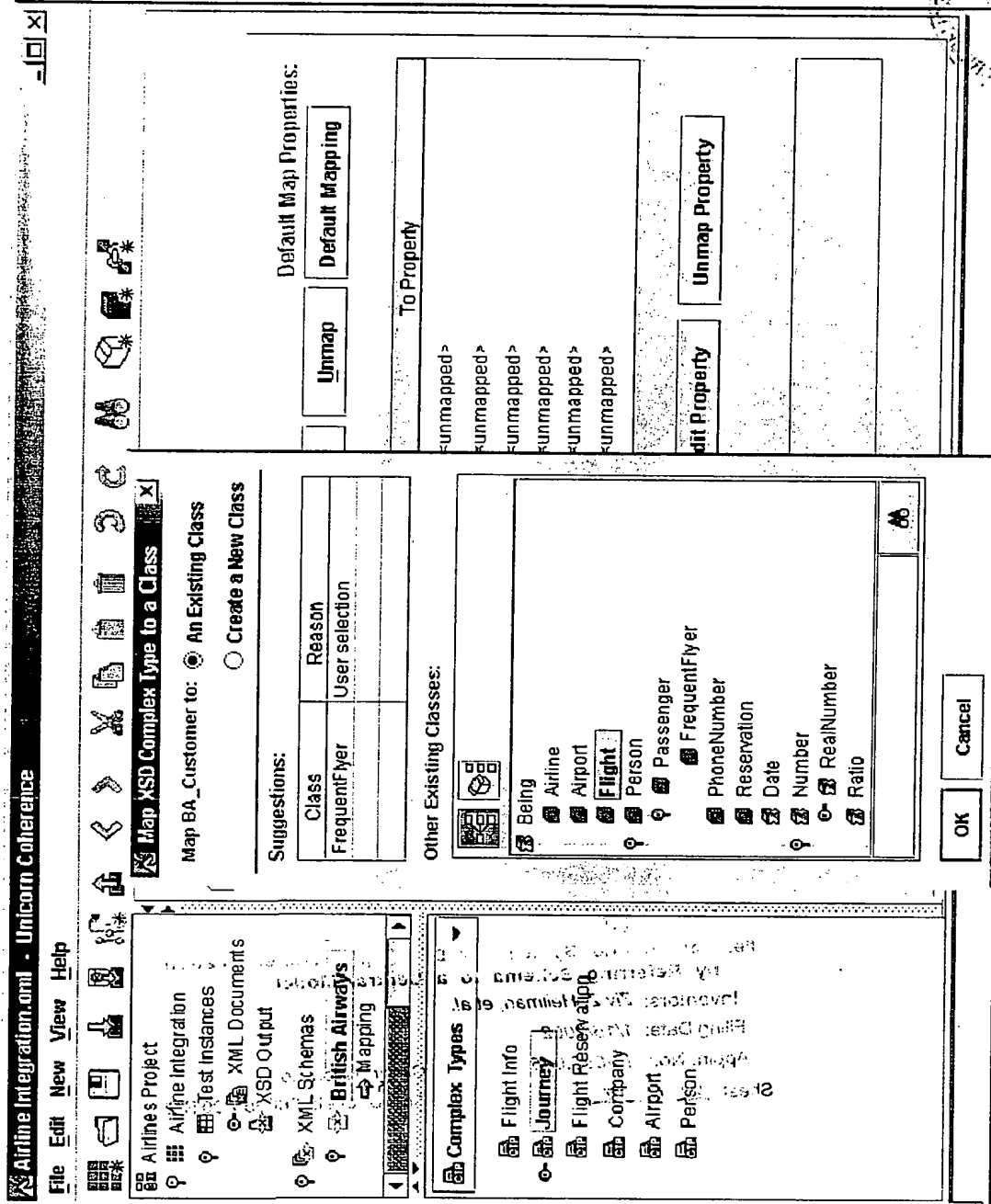


FIG. 11I



File Edit New View Help

Airlines Project

Airline Integration

Test Instances

XML Documents

XSD Output

XML Schemas

British Airways

Mapping

Map ComplexType: Journey

Schema Pro

Mapping to Class:

Flight

▼

Add ..

Unmap

Default Map Properties:

Default Mapping

From	Type	To Property
airline	Company	<unmapped>
arrival	Airport	<unmapped>
departure	Airport	<unmapped>
distance in miles	xs:float	<unmapped>
id	xs:string	<unmapped>
take off	xs:date	<unmapped>

Map This Field To:

New Property

Existing Property

Edit Property

Unmap Property

Description:

The airline company name.

FIG. 11J

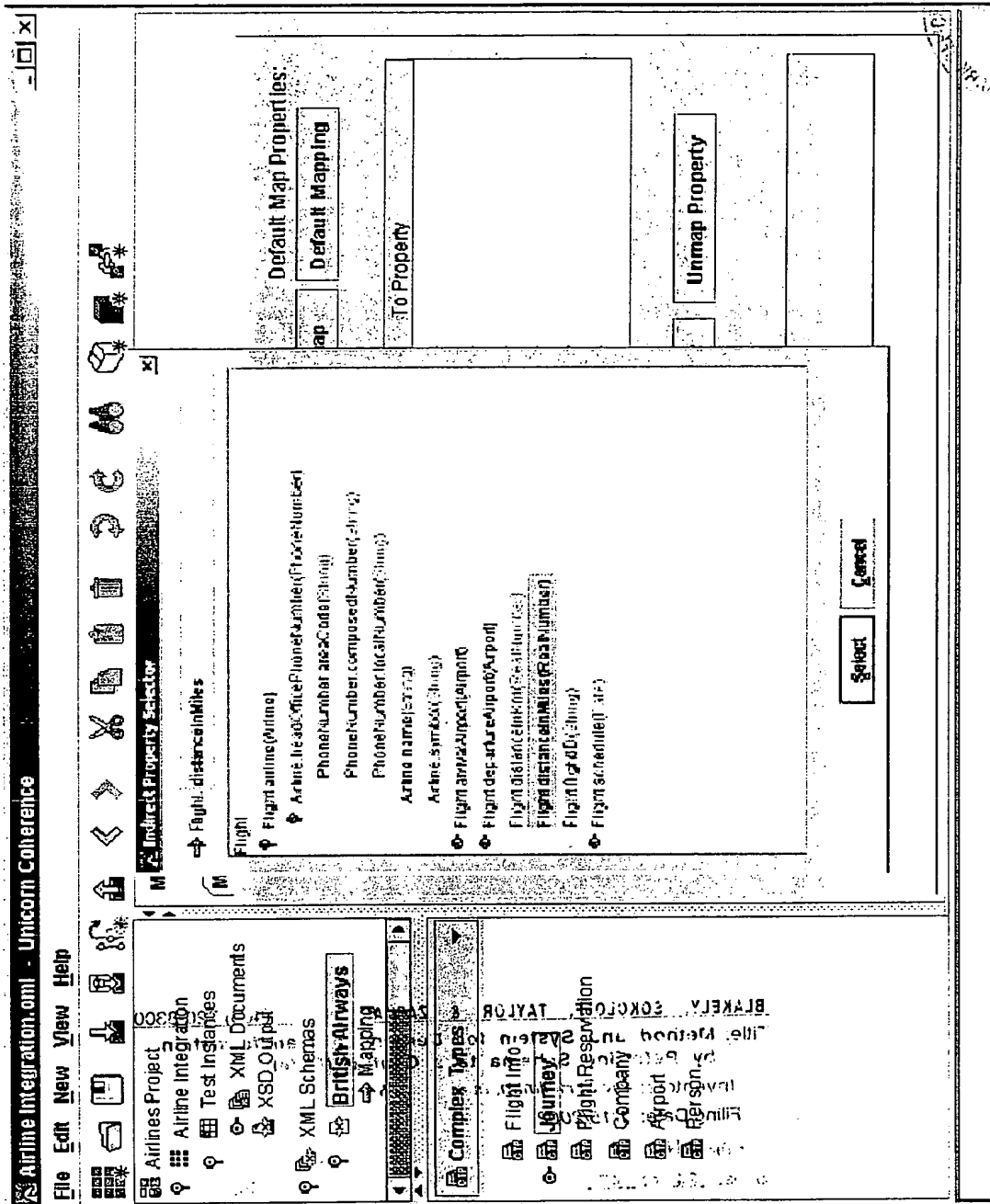


FIG. 11K

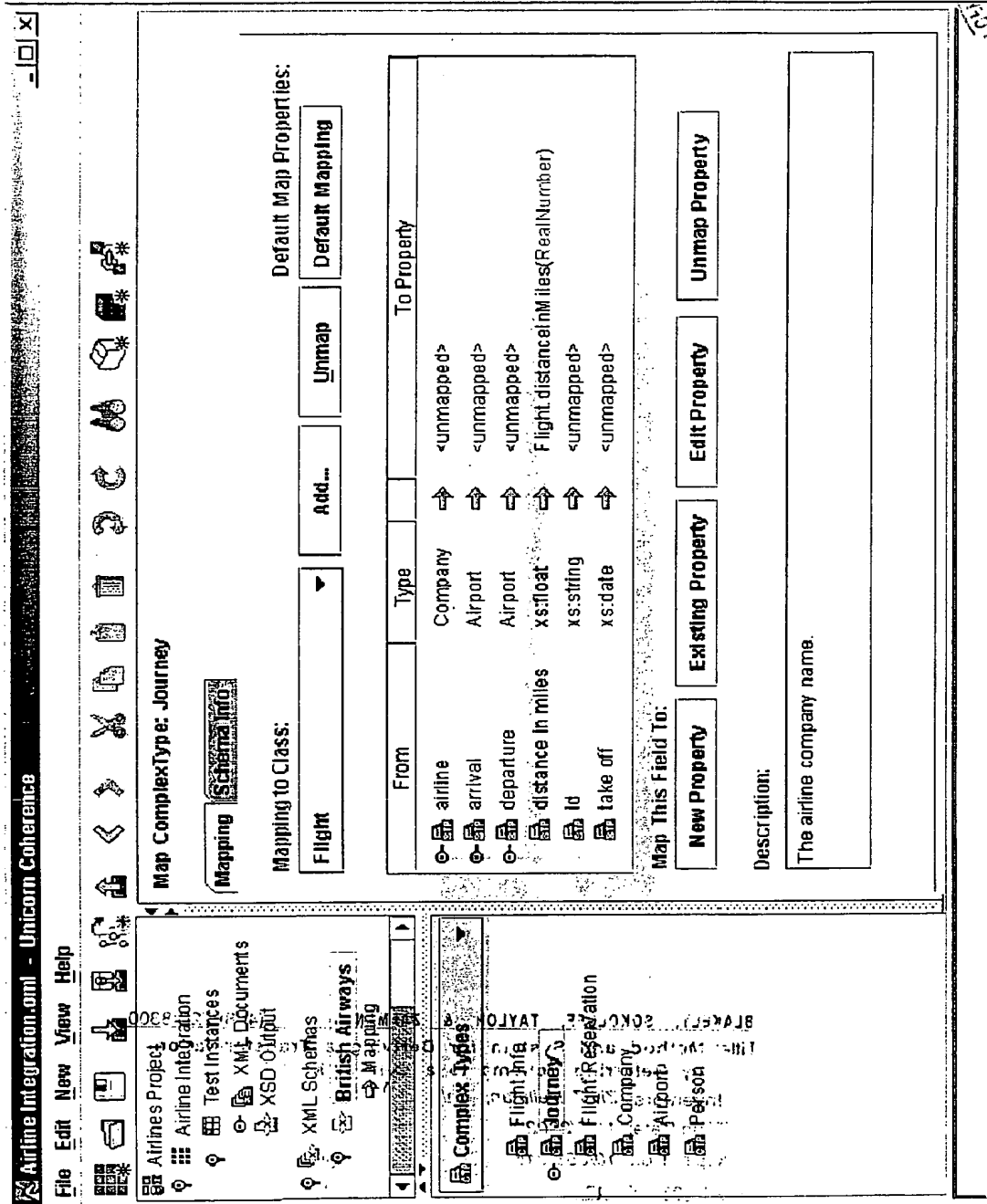


FIG. 11L

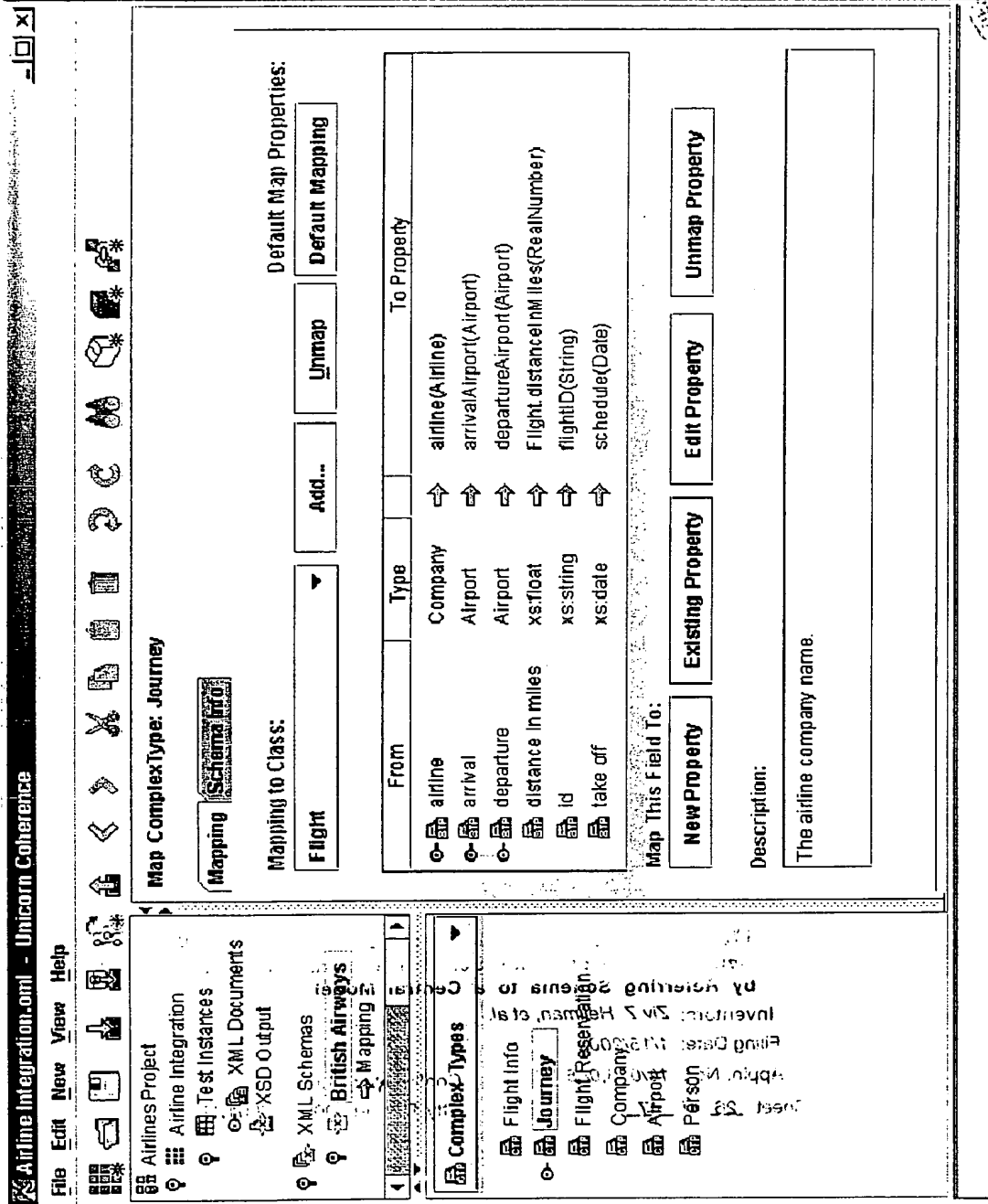


FIG. 11M

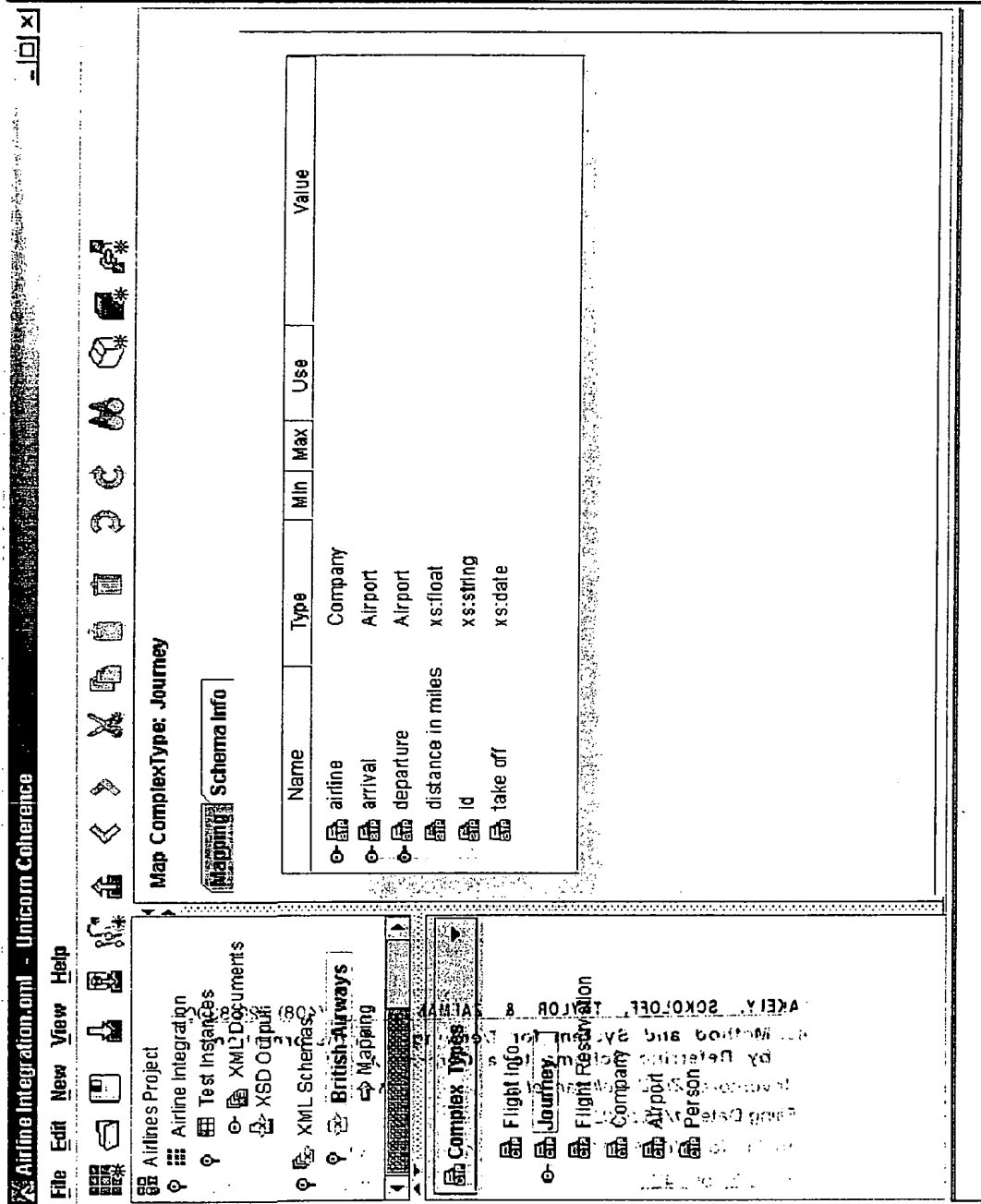
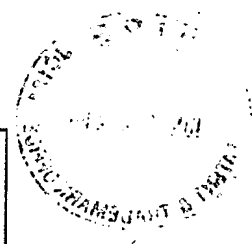


FIG. 11N



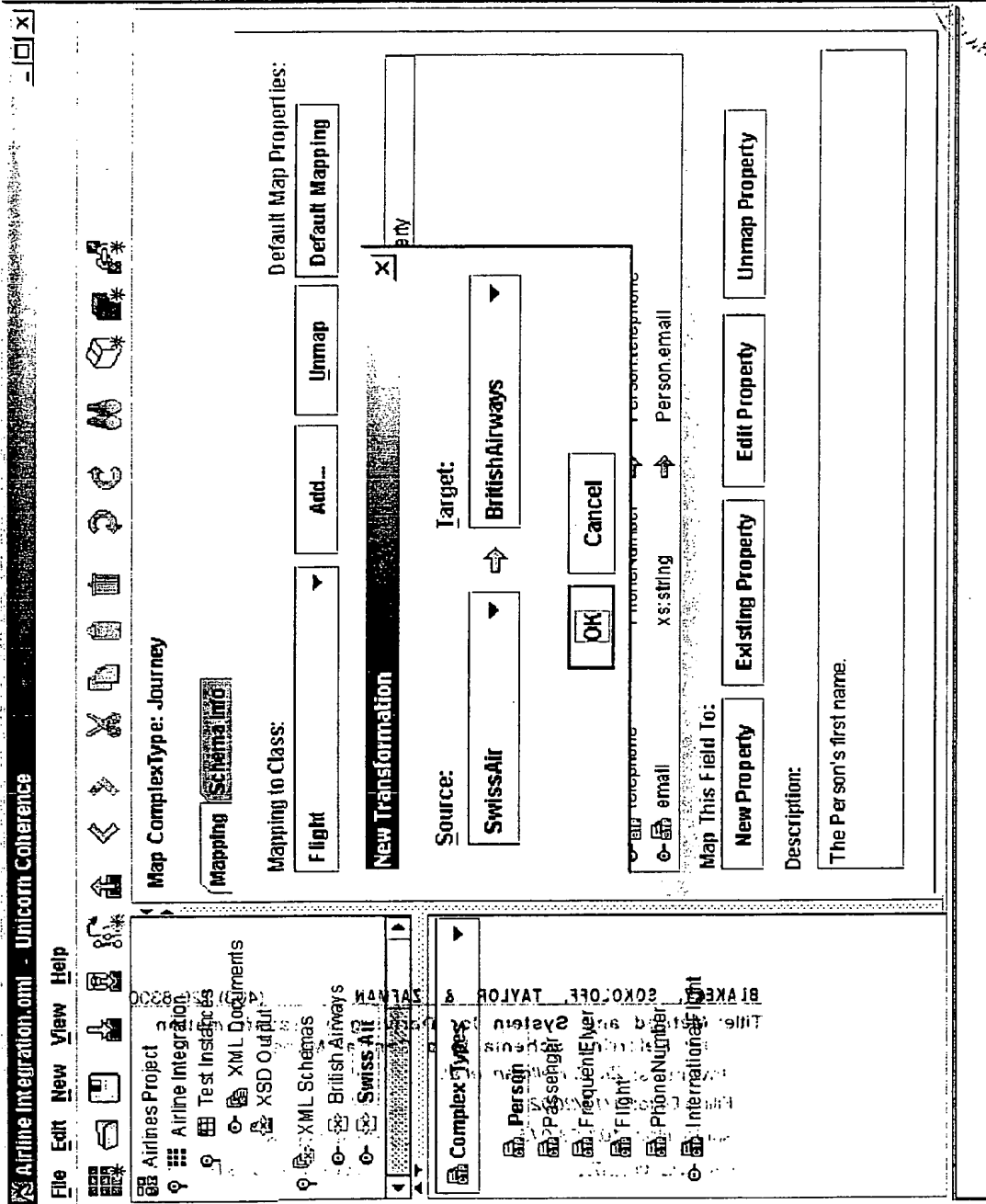


FIG. 110

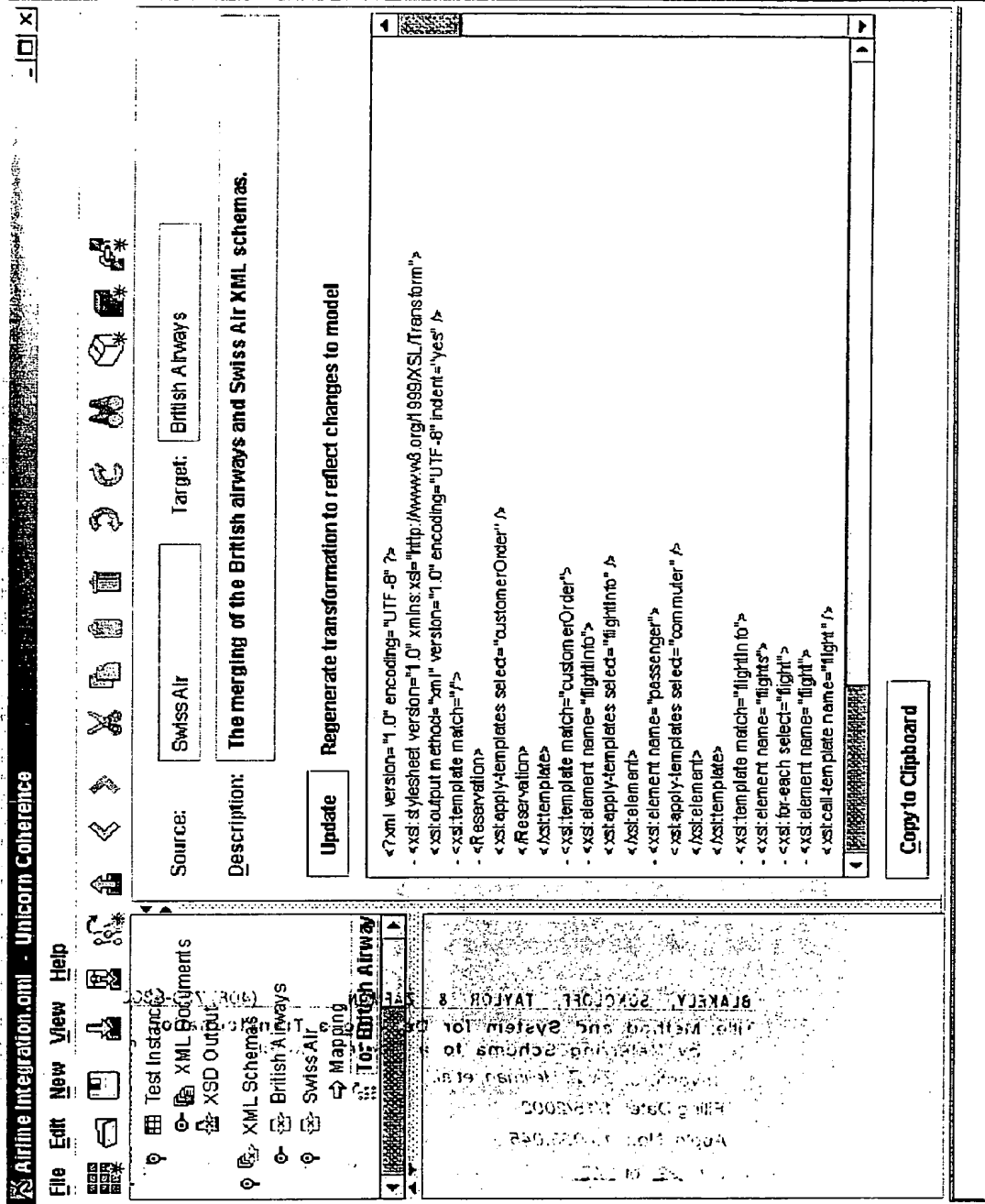


FIG. 11P

```

<?xml version="1.0" encoding="UTF-8">
<!--Sample XML file generated by XML Spy v4.0 W http://www.xml
<?xml-stYLESHEET type="text/xml" href="C:\Uniscorn\demos\airline
<customerOrder xmlns:xsi="http://www.w3.org/2001/XMLSchema-Insta
<flightInfo>
  <flight>
    <airline>
      <name>American Airlines</name>
      <symbol>AA</symbol>
      <phones>
        <phone>(212) 591-2411</phone>
        <fax>(212) 591-3412</fax>
      </phones>
    </airline>
    <arrival>
      <statusCode>Los Angeles</statusCode>
      <airportName>LA International</airportName>
      <symbol>LAX</symbol>
    </arrival>
    <departure>
      <statusCode>New York</statusCode>
      <airportName>La Guardia</airportName>
      <symbol>LGA</symbol>
    </departure>
    <informationNumber>(718) 356-9734</info
    <id>001</id>
    <take-off>1987-08-13</take-off>
  </flight>
</flightInfo>
<computer>
  <fullName>Homer Jay Simpson</fullName>
  <age>39</age>

```

```

xmlns:xsi="http://www.w3.org/2001
<?xml version="1.0" encoding="UTF-8"
<?xml-stYLESHEET version="1.0"
xmlns:xsi="http://www.w3.org/2001
<flightInfo>
  <flight>
    <airline>
      <name>American Airlines</name>
      <symbol>AA</symbol>
      <phones>
        <phone>(212) 591-2411</phone>
        <fax>(212) 591-3412</fax>
      </phones>
    </airline>
    <arrival>
      <statusCode>Los Angeles</statusCode>
      <airportName>LA International</airportName>
      <symbol>LAX</symbol>
    </arrival>
    <departure>
      <statusCode>New York</statusCode>
      <airportName>La Guardia</airportName>
      <symbol>LGA</symbol>
    </departure>
    <informationNumber>(718) 356-9734</info
    <id>001</id>
    <take-off>1987-08-13</take-off>
  </flight>
</flightInfo>
<computer>
  <fullName>Homer Jay Simpson</fullName>
  <age>39</age>

```

```

<?xml version="1.0" encoding="UTF-8"
<?xml-stYLESHEET version="1.0"
xmlns:xsi="http://www.w3.org/2001
<flightInfo>
  <flight>
    <airline>
      <name>American Airlines</name>
      <symbol>AA</symbol>
      <phones>
        <phone>(212) 591-2411</phone>
        <fax>(212) 591-3412</fax>
      </phones>
    </airline>
    <arrival>
      <statusCode>Los Angeles</statusCode>
      <airportName>LA International</airportName>
      <symbol>LAX</symbol>
    </arrival>
    <departure>
      <statusCode>New York</statusCode>
      <airportName>La Guardia</airportName>
      <symbol>LGA</symbol>
    </departure>
    <informationNumber>(718) 356-9734</info
    <id>001</id>
    <take-off>1987-08-13</take-off>
  </flight>
</flightInfo>
<computer>
  <fullName>Homer Jay Simpson</fullName>
  <age>39</age>

```

FIG. 110





FIG. 11R

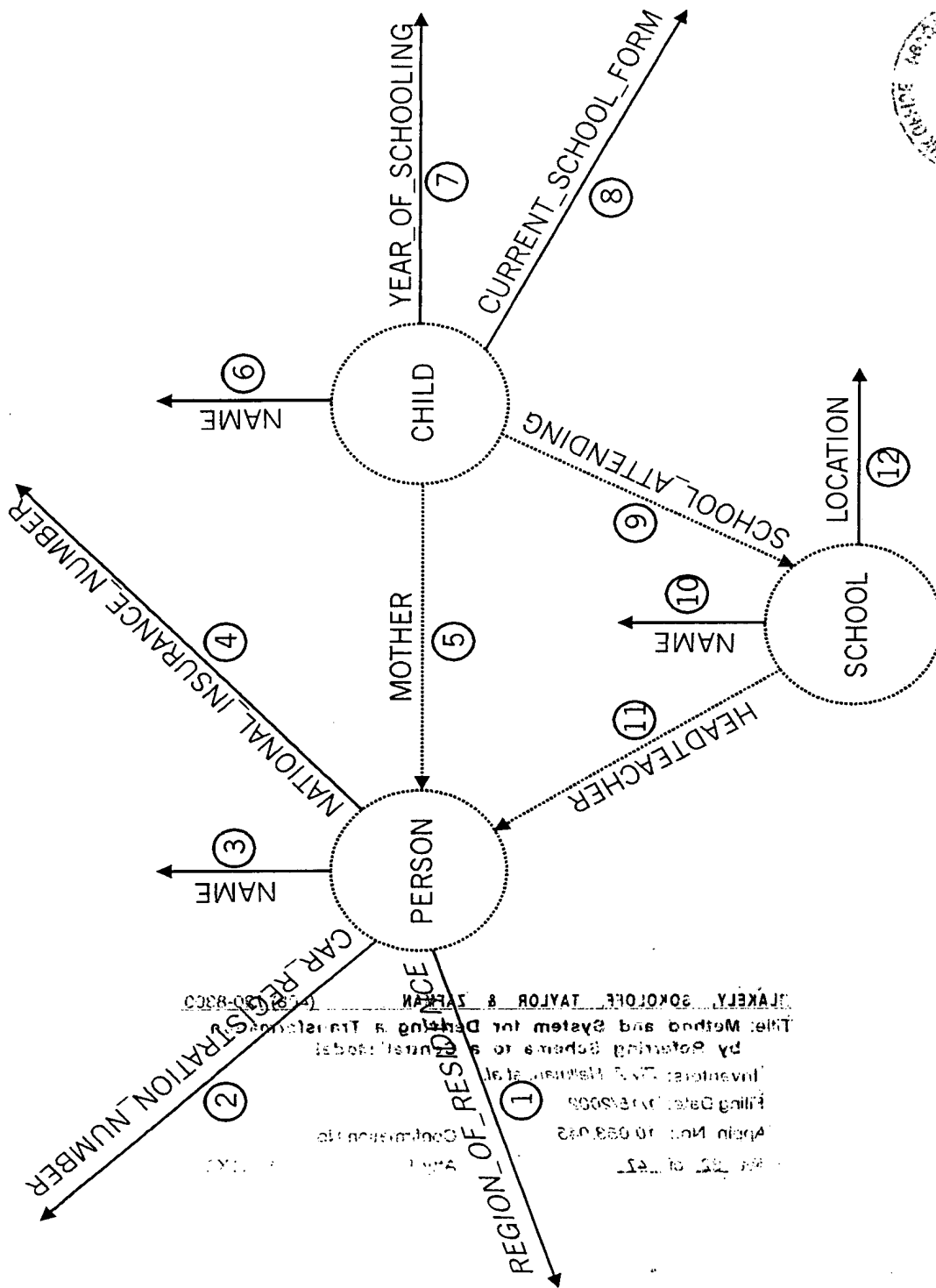


FIG. 12



Filed Date: 07-16-2003  
 Inventor: T. J. Taylor et al.  
 by Patenting System for Design & Invention  
 TAYLOR & TAYLOR  
 0038-0037-9

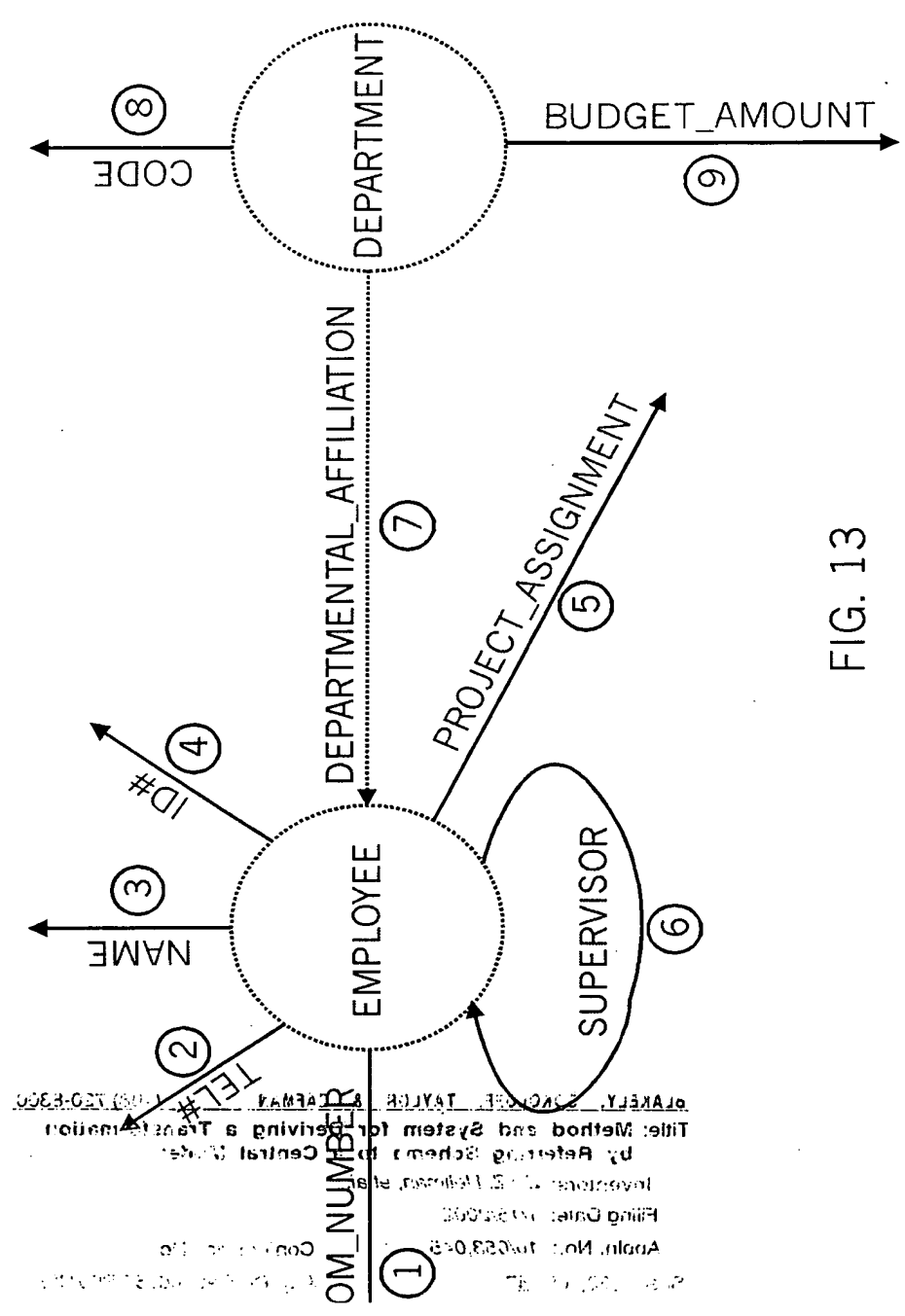


FIG. 13



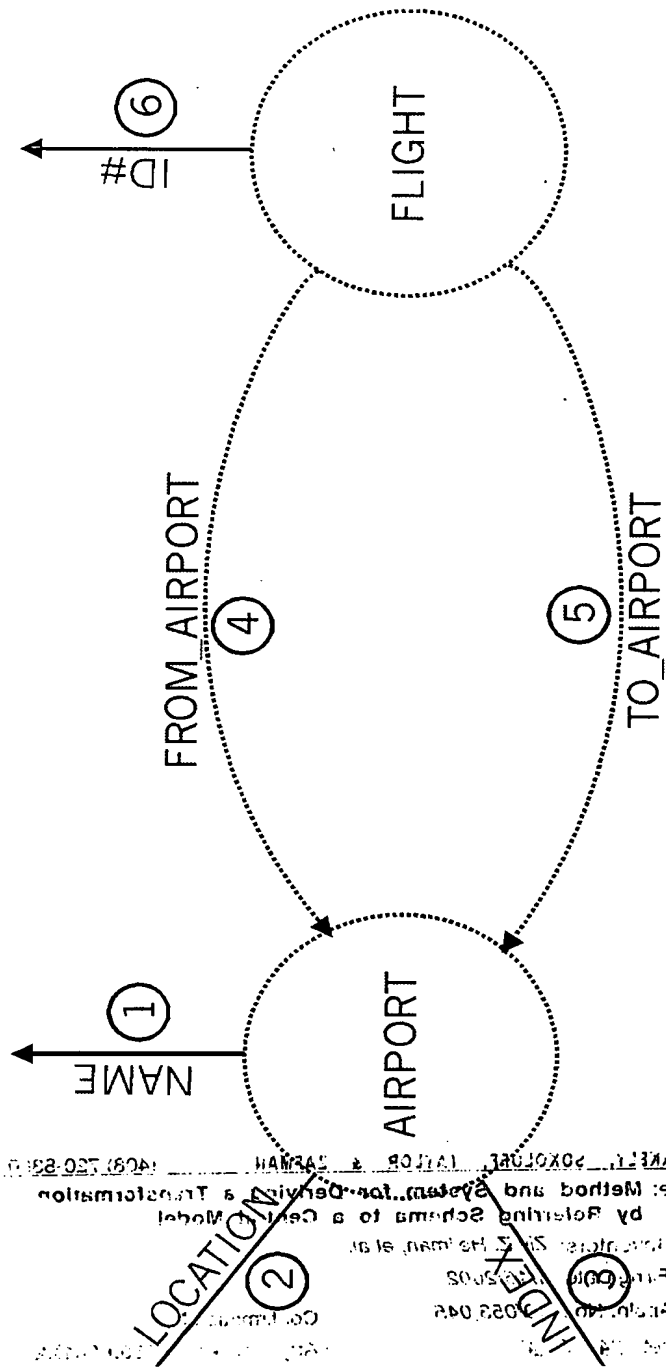


FIG. 14



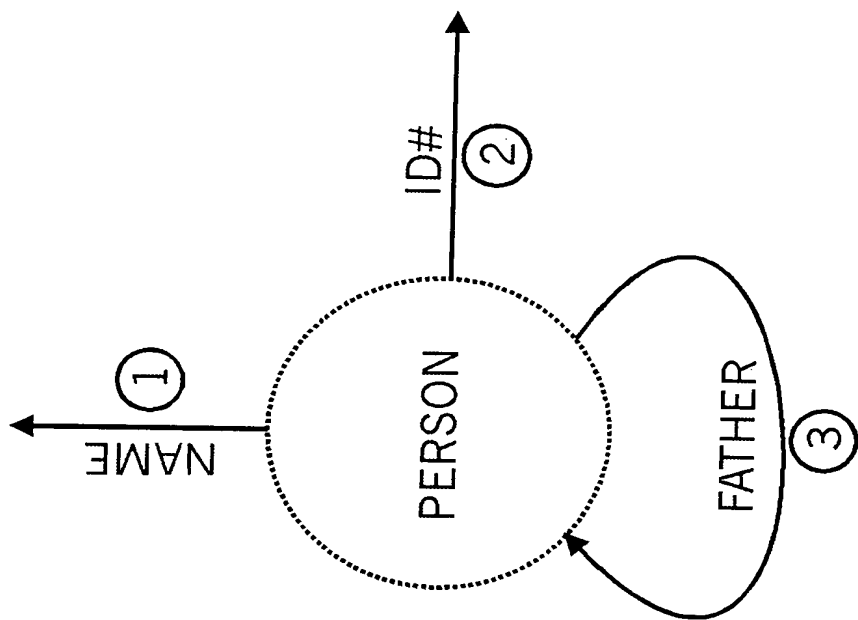


FIG. 15



Patent No. 5,100,045  
 Filed Dec. 1, 1990  
 Invention of: Jeffrey A. Taylor and  
 by Jeffrey A. Taylor & Jeffrey A. Taylor  
 (Attorneys) (400) 150-8800

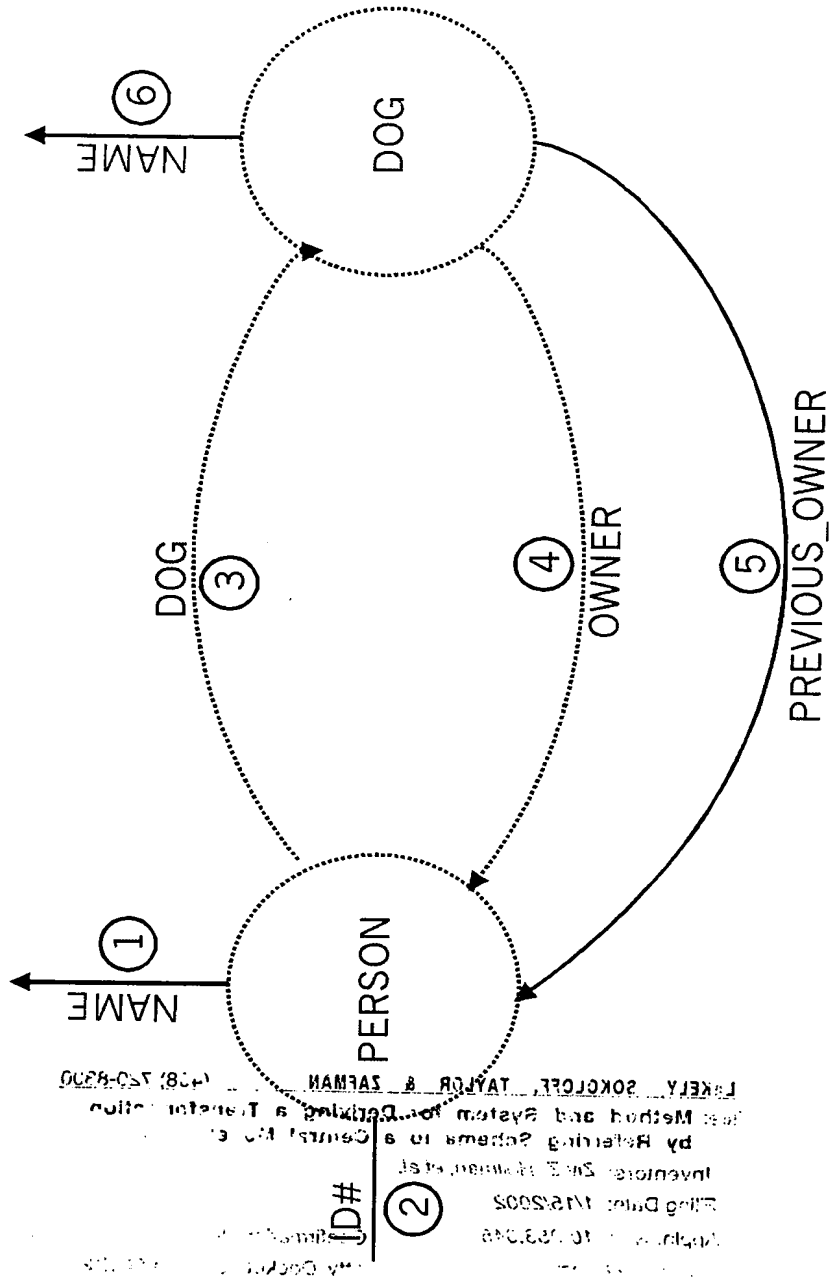


FIG. 16



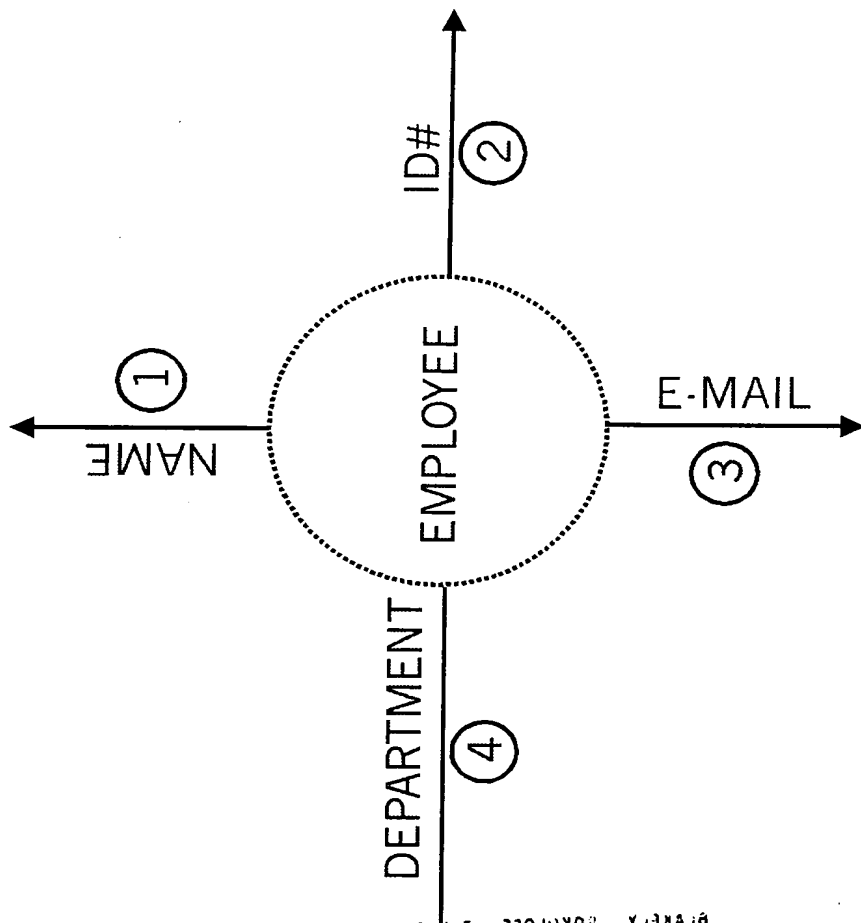
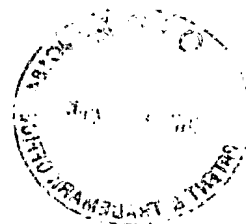


FIG. 17



BLAKELY, SOXHOFF, TAYLOR & SAEVAK  
 1000 15th Street, Suite 1000  
 San Francisco, CA 94103  
 Tel: 415.774.2000  
 Fax: 415.774.2001  
 E-Mail: info@blsot.com  
 The Method and System for Deriving a Transformation  
 by Relating Schema to a Central Schema  
 (H06/250-8200)

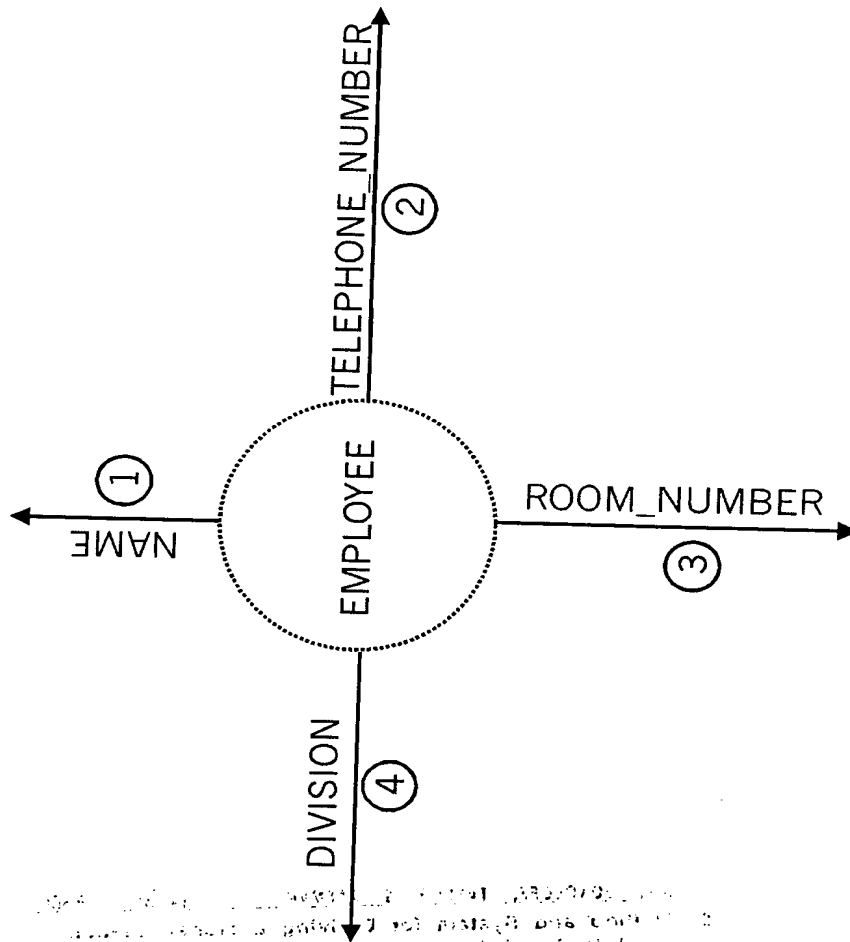


FIG. 18



Filed Date: 10/10/03  
 Inventors: Ziv Z. Hellman, et al.  
 by Helming Schmitt to a Central Patent  
 and Patent Office for filing a  
 patent application in the name of  
 the inventor.



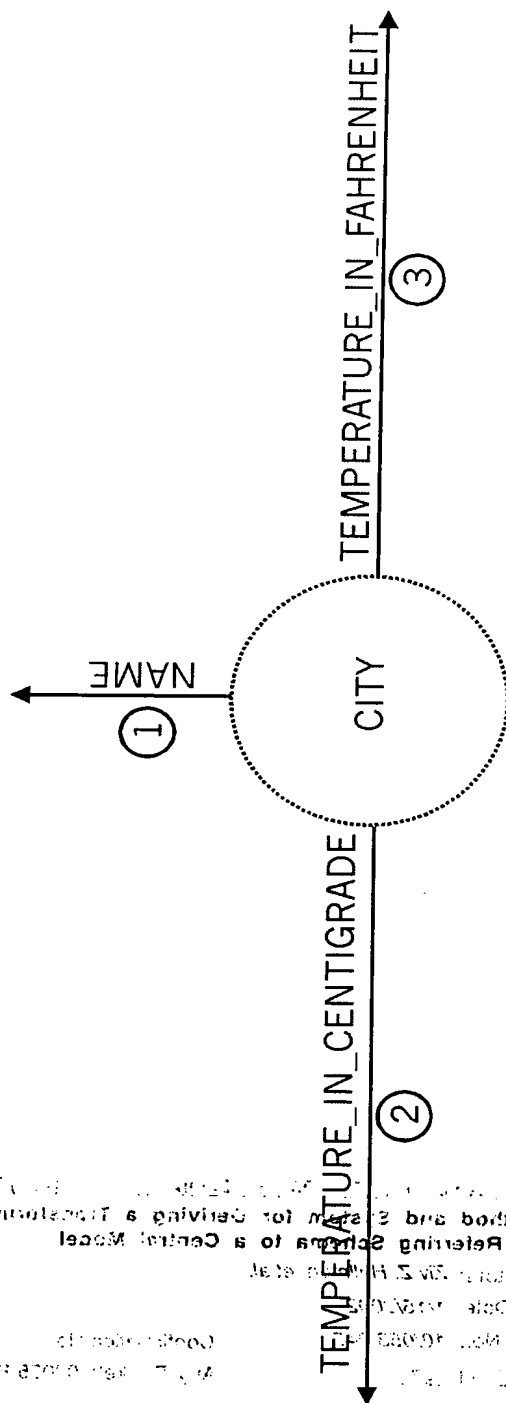
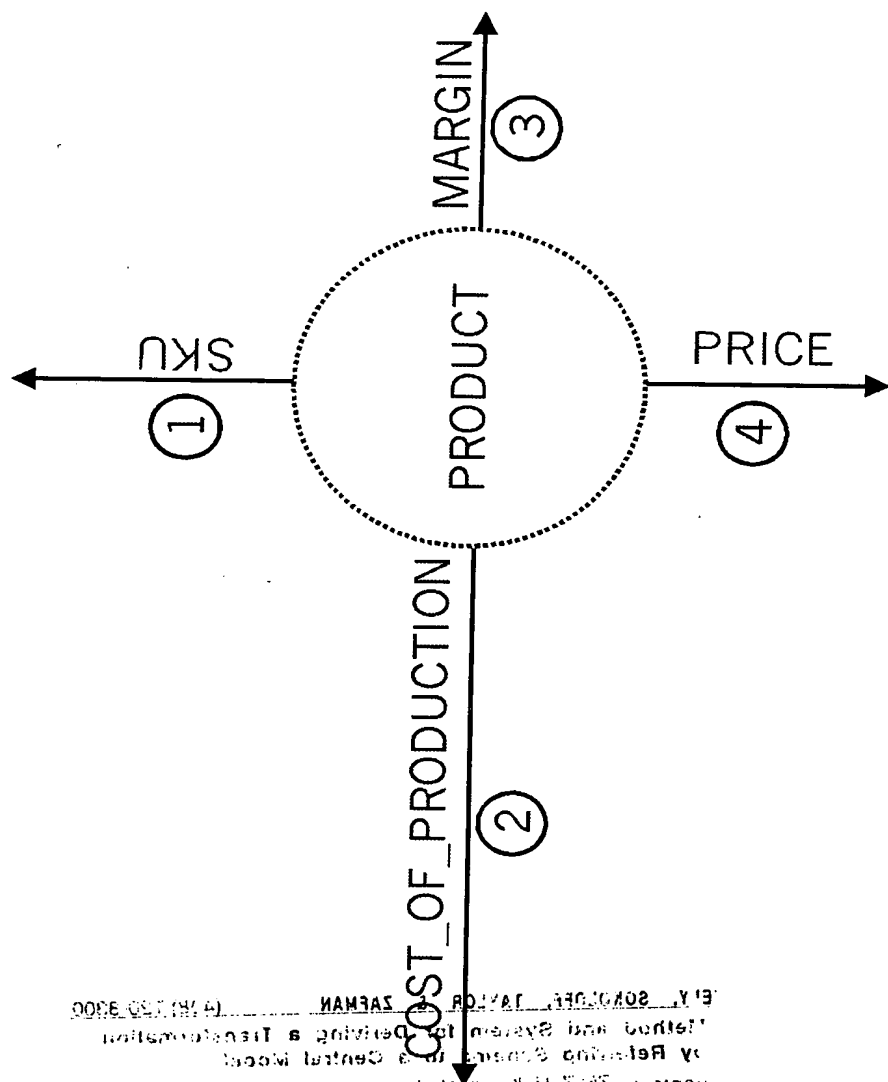


FIG. 19





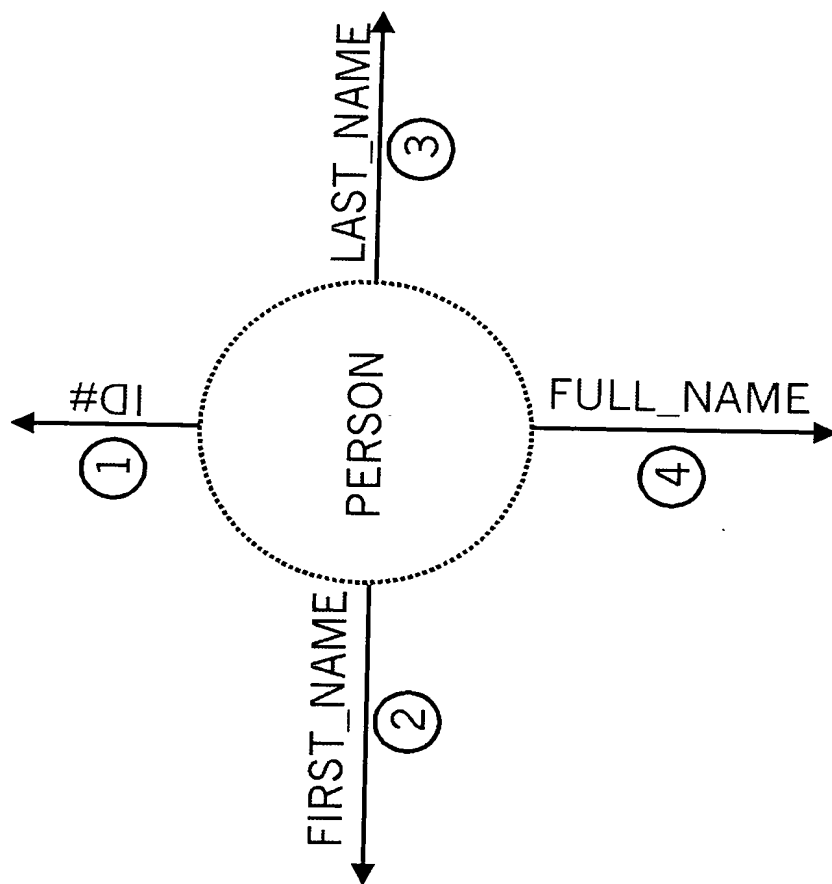


FIG. 21



STANLEY, JOSEPH & TAYLOR, 8 YEARS  
 0005-025 (800)  
 The following information was received from the  
 Bureau of the Census, Washington, D.C. 20540  
 on 1/10/68.  
 The following information was received from the  
 Bureau of the Census, Washington, D.C. 20540  
 on 1/10/68.  
 The following information was received from the  
 Bureau of the Census, Washington, D.C. 20540  
 on 1/10/68.

INVENTOR: JAMES E. HARRIS, JR.  
BY: JAMES E. HARRIS, JR.  
WITNESSES: JAMES E. HARRIS, JR.  
JAMES E. HARRIS, JR.

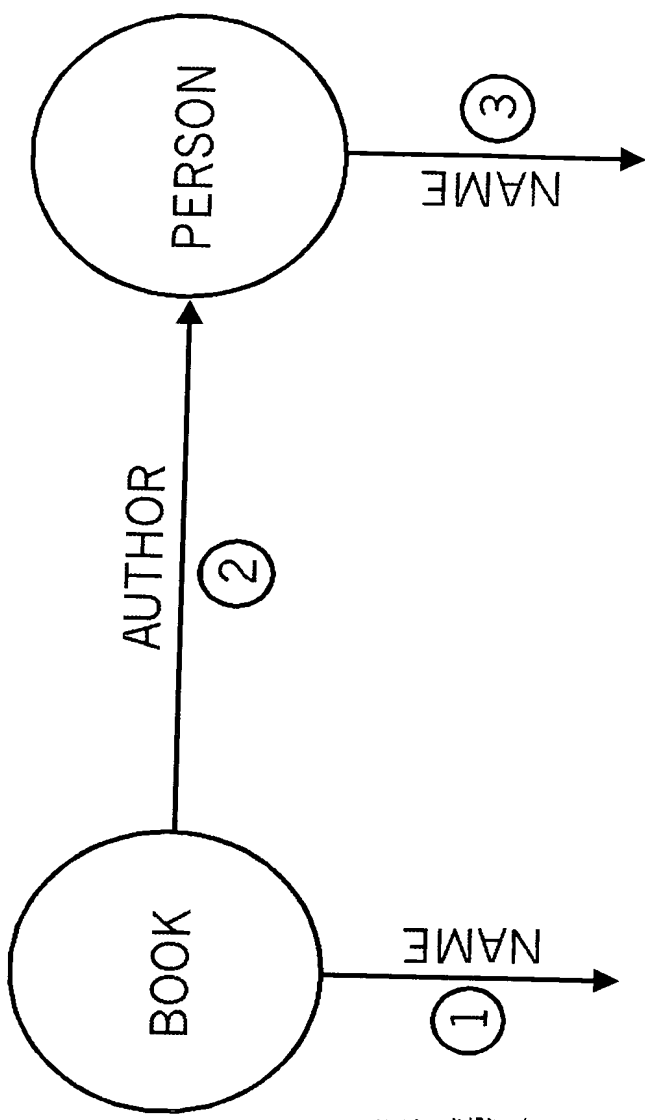


FIG. 22

THE UNIVERSITY OF CHICAGO LIBRARY  
1000 S. EAST ASIAN BLDG.  
CHICAGO, ILL. 60607  
TEL: 773-936-5000  
FAX: 773-936-5001  
WWW.CHICAGO.LIBRARY.EDU

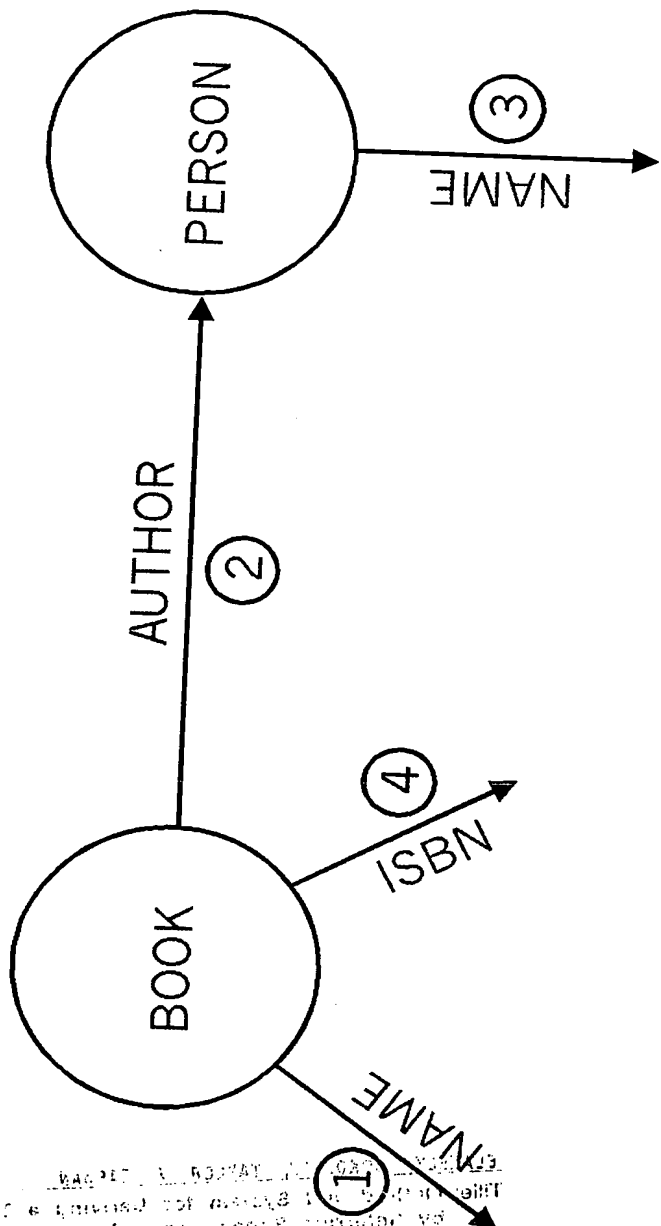


FIG. 23

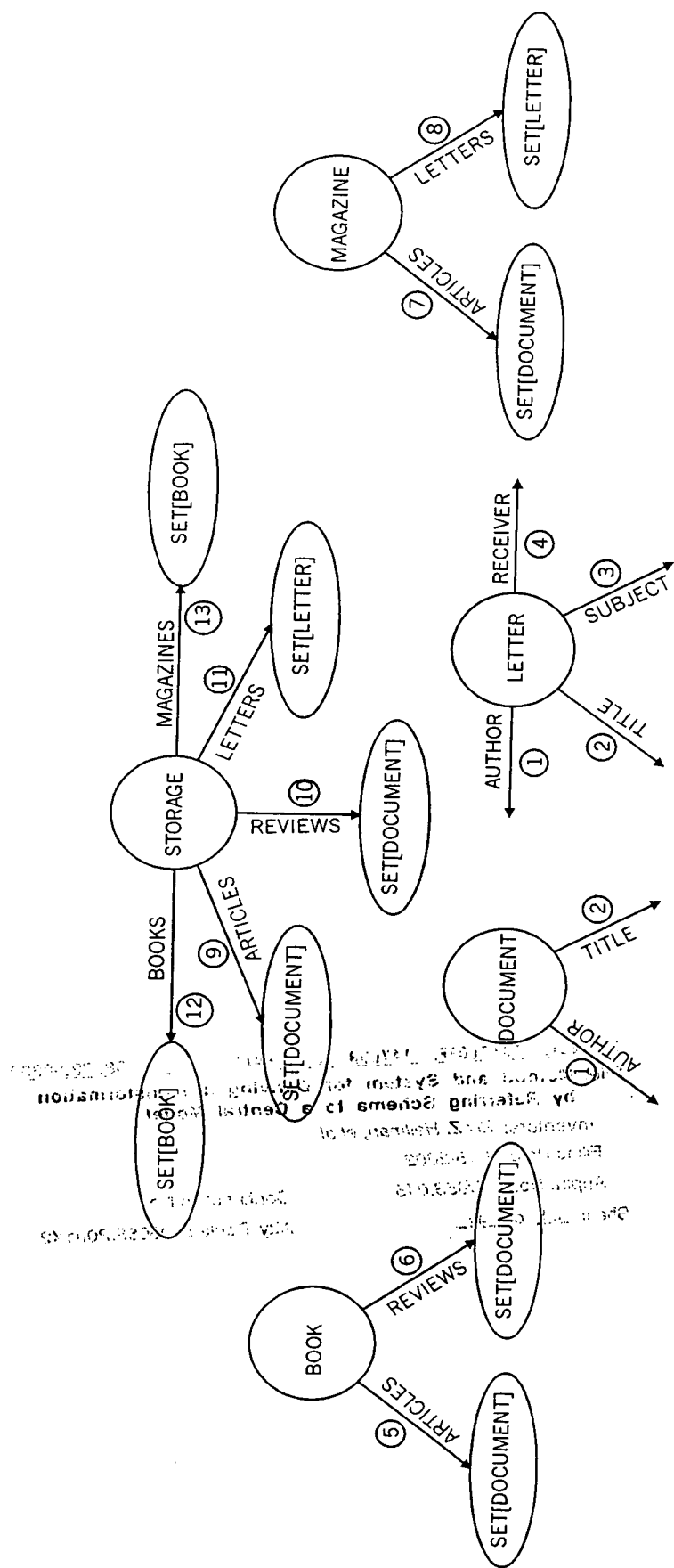


FIG. 24



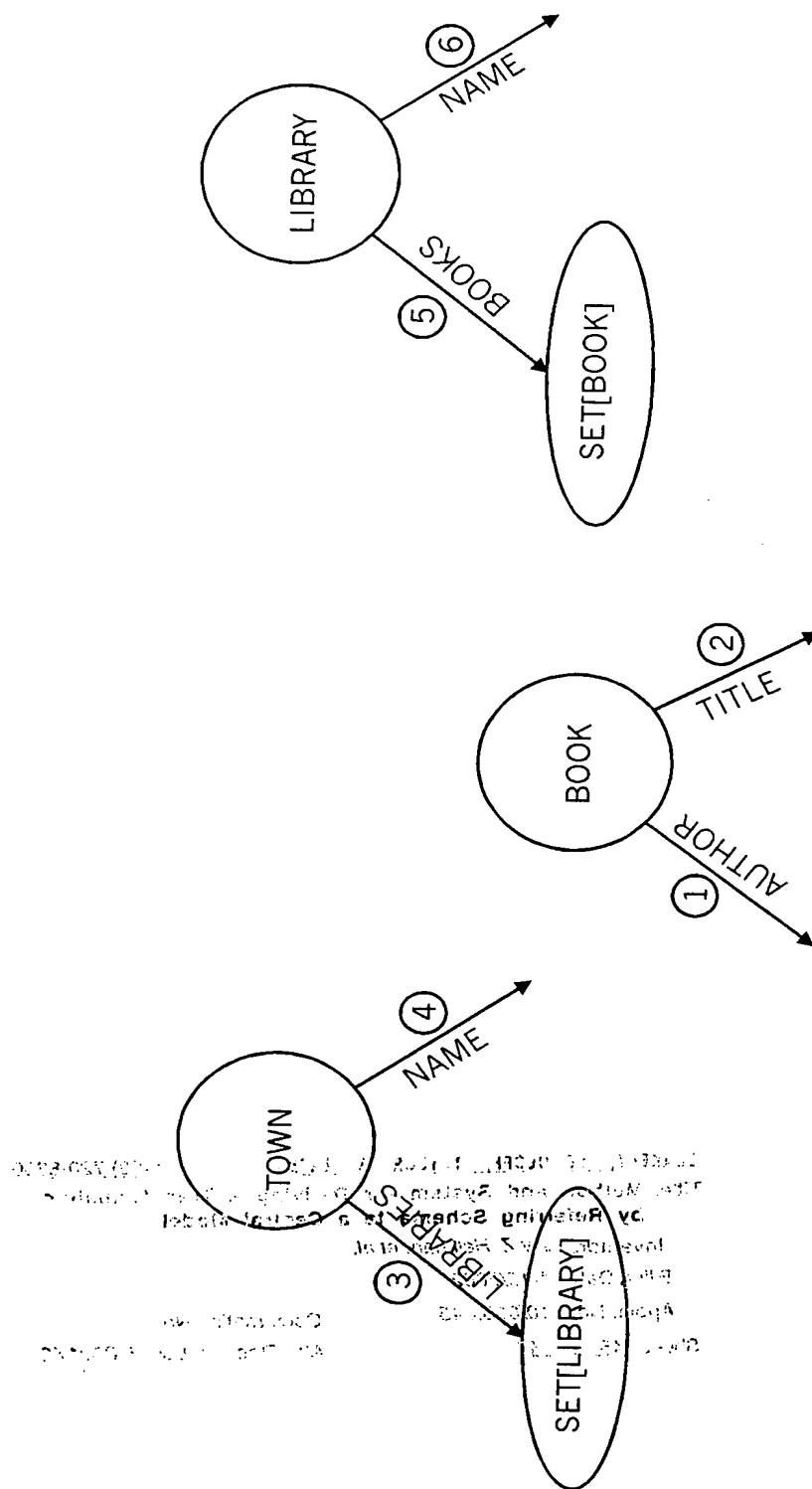


FIG. 25



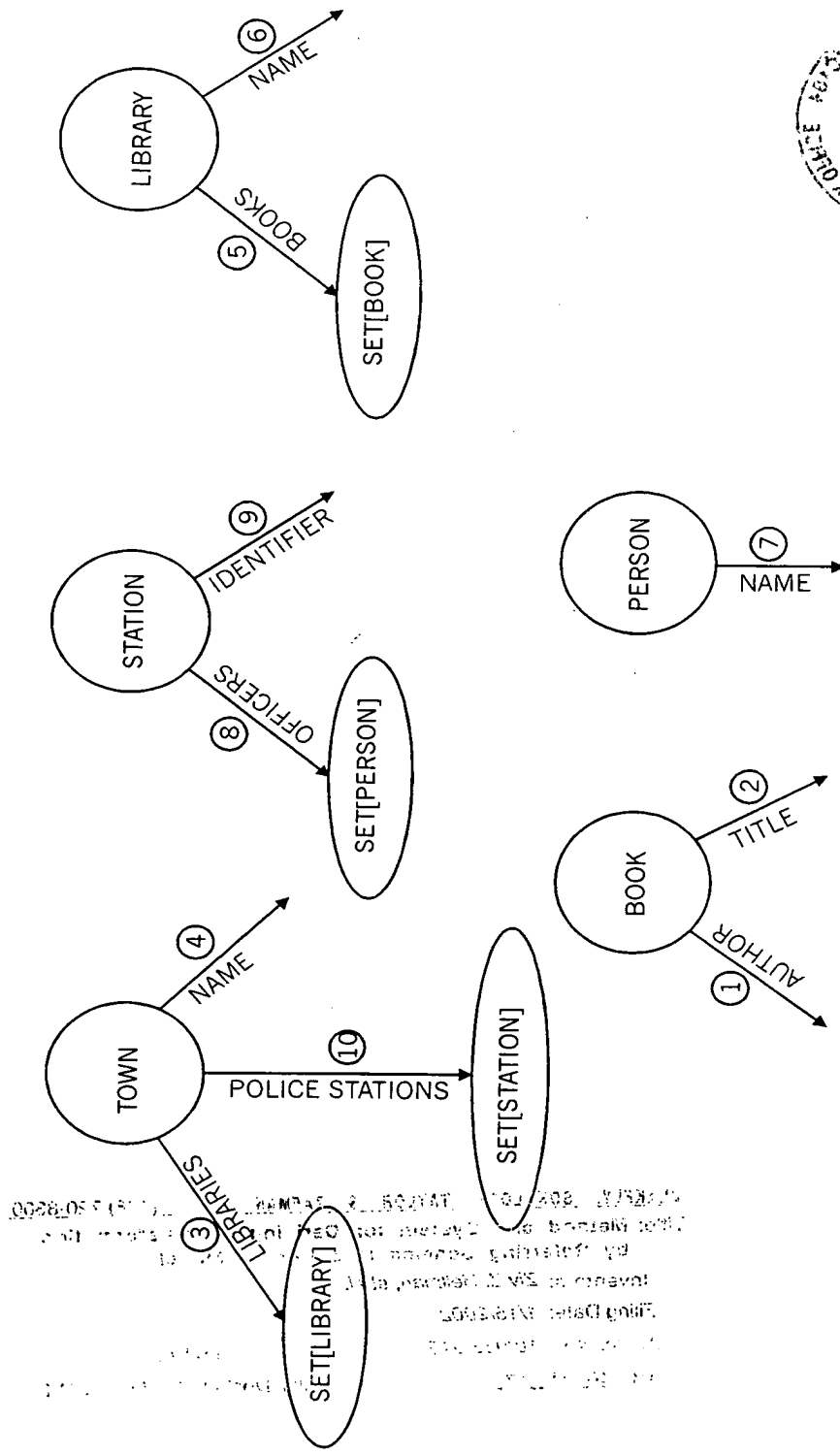


FIG. 26

